H.265 NVR SERIES

User Manual

Please read instructions thoroughly before operation and retain it for future reference. For the actual display & operation, please refer to your device in hand.



Free PC CMS software (CMS Lite)

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This product doesn't have a standby / off mode.

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1. HARDWARE OVERVIEW

1.1 Front Panel

Note: The functions on the front panel may vary, depending on the mode you have.

1) Select & Unlock

These two buttons are used to unmount a hard disk. Press **Select** and check the HDD indicator (red & always on) to ensure the hard disk you want to unmount is chosen. Then, choose **Unlock** to unmount the hard disk (HDD indicator: red & flashing).

When the hard disk unmount is completed, the indicator will be off, and you're ready to remove the hard disk from the HDD tray.

2) HDD Indicators

Check the HDD indicator for each installed hard disk to ensure the hard disks work normally.

Note: Some statuses are for selected models only.

Color	Status	Meaning
	No light	No hard disk is installed, or the installed hard disk is not detected. Please install a hard disk or replace the installed hard disk, and try again.
Green	Always on	The installed hard disk is detected well.
Green	Flashing	Data reading / writing.
Red	Always on	The hard disk is selected for unmounting.
Red	Flashing	The device is mounting or unmounting the selected hard disk.

3) Status LED indicators

Press to power on the device; press and hold for 3 seconds to power off the device.

Note: Some indicators are for selected models only.

 ወ	This device is power-supplied.
*	The device is connected to Internet.
\$	The device is connected to LAN.
4	An alarm event occurs.
err.	Any of the adapter, power or fan is abnormal.
	Video playback is on.
eSATA	An external disk array is connected.
=	An USB flash drive or USB hard disk is connected.
©	This device is in the standby mode when it's powered off.

4) <u>Power</u> (也)

Press to power on the device; press and hold for 3 seconds to power off the device.

5) Mouse port (也)

Insert a mouse for function operation.

6) <u>USB port</u> (**←**)

Insert a compatible USB flash drive for video backup.

Note: For the compatible list of USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIS" at page 72.

1.2 Rear Panel

Note: The functions on the rear panel may vary, depending on the mode you have.

1) <u>HDMI1</u>

This port is used to connect the monitor which supports HDMI interface for main monitor output

2) HDMI2

This port is used to connect a secondary monitor which supports HDMI interface for secondary monitor output. For details, please refer to "6.10 DISPLAY" at page 49.

3) VGA

Connect to the VGA port of the monitor which supports VGA video output for main display output.

4) VIDEO OUT

Connect to a CRT monitor for main monitor output.

5) eSATA

This port is used to connect a storage device supporting eSATA interface; for instance, an external disk array.

Note: Please purchase a disk array supporting Linux system to ensure your device works properly. For the compatible list, please refer to "APPENDIX 6 DISK ARRAY COMPATIBLE LIS" at page 75.

Note: If the disk array is not connected or detected well, check the mode of your disk array, or do a reset default on your disk array and try again.

6) <u>WAN</u>

This port is used to connect your device to Internet.

7) <u>LAN</u>

This port is used to connect IP cameras to this device with a hub (if necessary) locally.

8) MIC IN

Connect to a microphone for audio transmission.

9) AUDIO OUT

Connect to a speaker for audio transmission.

10) External I/O Ports

These ports are used to connect external I/O devices, such as magnetic contacts or buzzers, or external control devices, such as other brand's speed dome camera or keyboard controller.

11) USB 3.0

Insert a compatible USB flash drive or USB hard disk for video backup.

Note: For the compatible list of USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIS" at page 72.

12) <u>DC IN</u>

Connect to the supplied adapter.

13) Power Switch

Switch to "—" to turn on the power, and "O" to turn off the power.

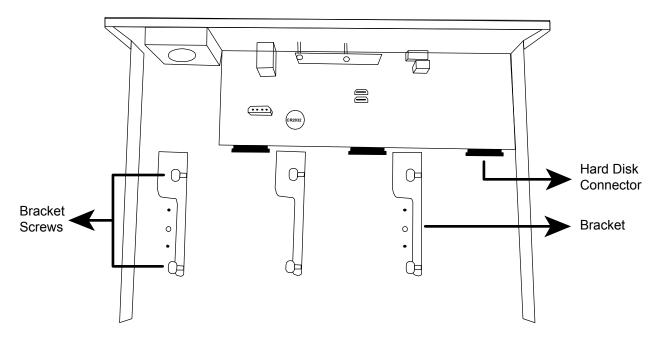
2. CONNECTION

2.1 Hard Disk Installation

Note: It's necessary to install a hard disk first before firmware upgrade to ensure the upgrade process works properly.

■ Type 1

Step1: Remove the top cover, and find the hard disk connector and bracket in the device.

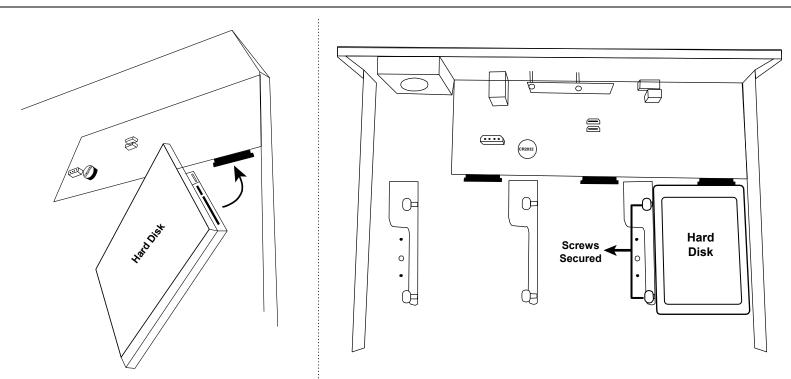


Step2: Get a compatible hard disk. With the PCB side facing down, insert the hard disk to one of the hard disk connector.

Note: To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.

Step3: Fasten the hard disk to the bracket by securing the screws on the bracket.

Note: For the 16CH model which supports five hard disks, please go to "Additional Brackets for Two More Hard Disks" to know how to install the other two hard disks.

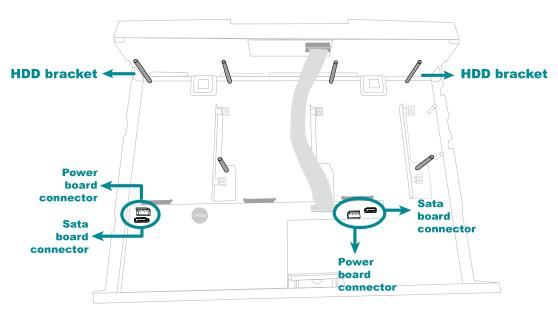


Step4: Replace the top cover and fasten the screws you loosened in Step1.

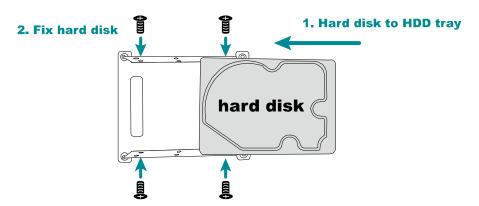
Additional Brackets for Two More Hard Disks

- Step1: For the 16CH model which supports five hard disks, find two pairs of HDD trays, SATA cables and power cables in the sales package.
- Step2: Find HDD brackets, power board connectors (white) and Sata board connectors (black) on the main board.

 To install a hard disk, three brackets, one power board connector (while) and one Sata board connector (black) are needed.

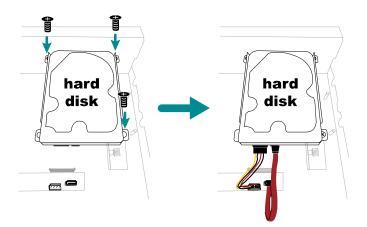


Step3: Place the hard disk to the HDD tray and fix it on the tray with the supplied screws.



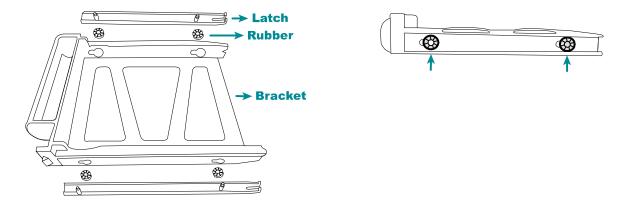
Step4: Fix the HDD tray to the HDD brackets with the supplied screws.

Step5: Connect the Sata cable and power cable to main board and the hard disk.



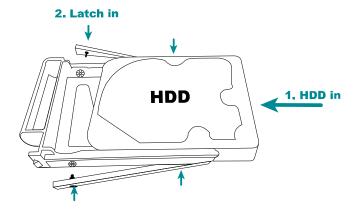
Type 2

Step1: Find the HDD tray and its accessories in the sales package, and place the rubber to the HDD tray as shown below.

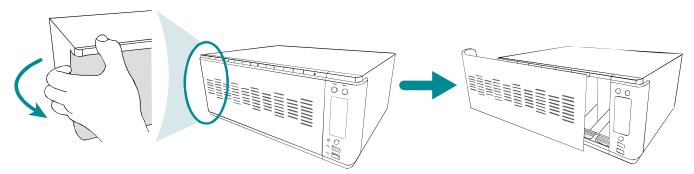


Step2: Get a compatible hard disk. With the PCB side facing down and the hard disk's connector facing the outside.

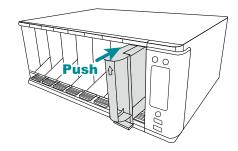
Then, place the hard disk in the HDD tray and insert the latches.



Step3: Remove the front cover by pulling from the left end of the cover as indicated below. You'll see eight HDD bays.



Step4: Push the HDD tray with a hard disk installed to the end of the HDD bay to ensure the hard disk is inserted properly.



Step5: Replace the front cover removed in Step3 back to the NVR.

Step6: Power on the NVR and wait till the initialization is completed. Check if the HDD indicator on the front panel is flashing in red.

Note: Please check "HDD Indicators" in "1.1 Front Panel" for details.

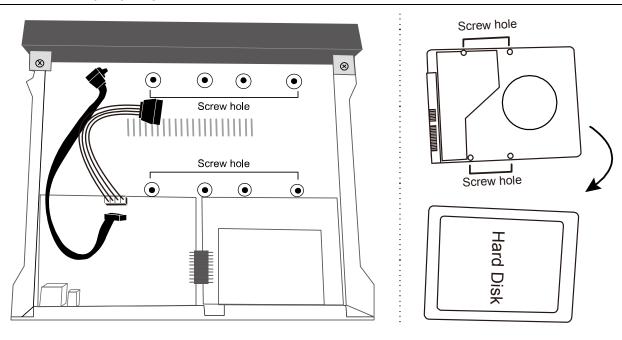
Then, right click the mouse to exit from the full screen mode. Click **MENU** \rightarrow **STORAGE** to see if all hard disks you inserted are detected, and click \square one by one to mount them. Wait till the hard disk is mounted and the status shows **READY**. When you're prompted to clear the hard disk, choose **YES**. For details, please check "6.6 STORAGE" at page 43.

■ Type 3

Step1: Remove the top cover, and find where to install a hard disk on the recorder.

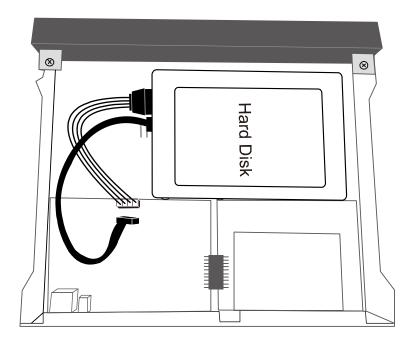
Step2: Get a compatible hard disk. With the PCB side facing down, find the screw holes on the recorder base, and place the hard disk in the recorder.

Note: To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.



Step3: Connect the data bus and power cable for the hard disk.

Step4: Align the screw holes on the base and the hard disk. Then, fasten the hard disk of the base with the supplied screws from the bottom side of the recorder.

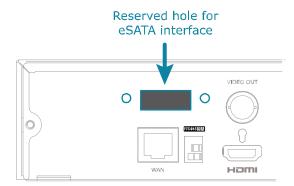


Step5: Replace the top cover and fasten the screws you loosened in Step1.

Step6: Remove the protective film on the bottom of the recorder if any to ensure the heat dissipation can work normally.

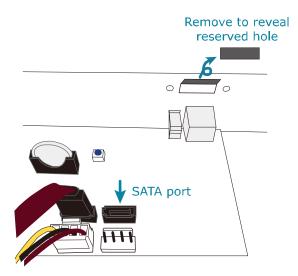
Add eSATA interface with optional SATA-to-eSATA cable

Step1: Check the specifications of your recorder and see if it supports this feature. If yes, find the reserved hole on the rear panel of your recorder as illustrated below.



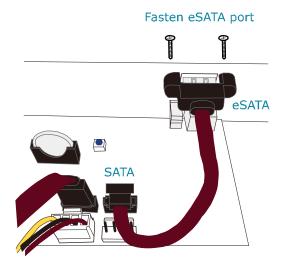
Step2: Remove the top cover of the recorder to reveal its main board. Remove the thin piece of metal that block the reserved hole. Then, remove one SATA cable on the board.

Note: It will consume one SATA port to add an eSATA interface on the mainboard of your recorder, which means you'll lose one hard disk which can be installed inside your recorder.



Step3: Get a SATA-to-eSATA cable and connect it to the board as illustrated below.

Note: The SATA-to-eSATA cable is optional and need to purchase separately.

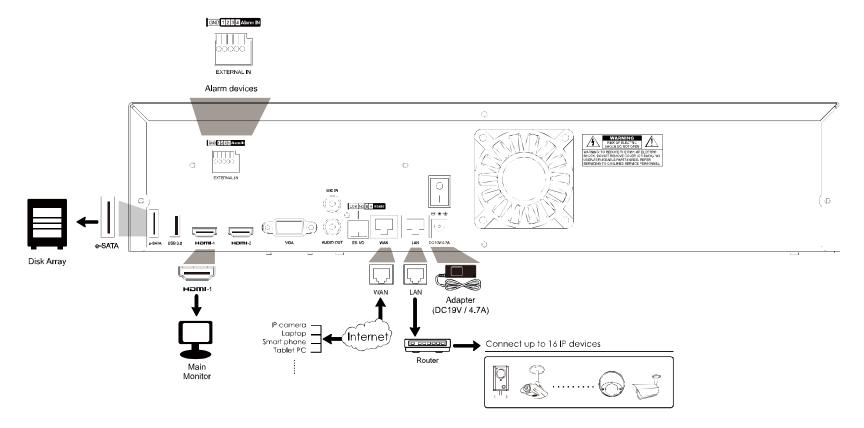




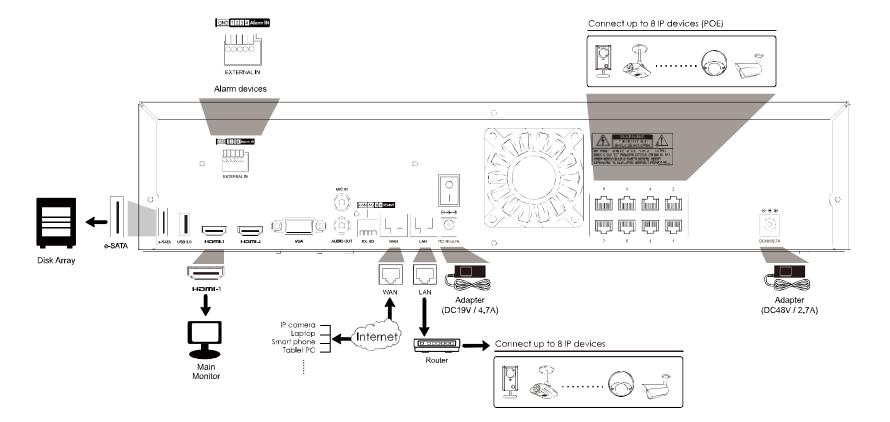
2.2 Connection

Connect a monitor, IP cameras, adapters, a mouse, and other devices necessary to this recorder as illustrated below.

■ Type 1



Type 2



Then, power on the whole system and wait till the system initialization is done.

2.3 Camera IP Configurations by LAN

The auto mode is used to simplify the complicated network settings within three minutes. The connection mode of the LAN port is **AUTO** by default. This mode is suitable when the LAN port of the device is connected to a hub / switch.

Note: SETTING Path: MENU → NETWORK → LAN → MODE.

Note: For access this recorder remotely with your mobile device or laptop, you need to connect this recorder to Internet. For details, please get the network setup manual from www.surveillance-download.com/user/network setup/network setup recorder.pdf.

The device will automatically configure the IP address of a camera connected by LAN if:

- The connected IP camera is our brand's IP camera.
- The IP configuration method of the camera is **DHCP**.
- The camera is powered on before the device is powered on.

If the device **doesn't** configure the IP address of your camera automatically as described above, your IP camera might **NOT** be:

- Our brand's IP camera.
- Set to DHCP as its default IP configuration method.

To solve this, reconfigure the IP address of the camera to 10.1.1.xx (xx ranges from $11 \sim 253$), which is in the same network segment as the device.

- For other brand's IP camera, please check its user manual to know how to change the IP address manually.
- For our brand's IP camera, please check the instructions below:
 - a) Go to MENU → CAMERA → CONNECTION, and select IP SEARCH at the bottom right corner. You'll see the list of every connected IP camera with its connection status to this device and MAC address.

	IP SEARCH									
A	assign	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR
		0	IPCAM	10.2.1.33	255.255.255.0	10.2.1.10	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH
							REFR	RESH	ADD)

The device will automatically configure the IP address of a camera connected by LAN if:

- The connected IP camera is our brand's IP camera.
- Reset the IP camera to default value (the default IP configuration method of the camera is "DHCP").
- The camera is powered on before the device is powered on.

If the device **doesn't** configure the IP address of your camera automatically as described above, your IP camera might **NOT** be:

- Our brand's IP camera.
- Set to "DHCP" as its default IP configuration method.

b) To solve this, use our brand's IP camera, and reconfigure its IP address to 10.1.1.xx (xx ranges from 11 ~ 253). Select ☑ (EDIT), and change the network type from **STATIC** to **DHCP**. Then, Click **APPLY** to save your changes.

SETUP							
NETWORK TYPE	DHCP						
IP	10.1.1.14						
PORT	88						
USER NAME Admin							
PASSWORD	****						
NETMASK	255.255.255.0						
GATEWAY	10.1.1.10						
PRIMARY DNS	8.8.8.8						
	CANCEL APPLY						

c) Check \square to assign the camera to a specific channel automatically, and choose **ADD**.

	IP SEARCH										
	ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR	
$\overline{\mathbf{A}}$	CH1	0	IPCAM	10.1.1.14	255.255.255.0	10.1.1.10	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH	
							REFR	ESH	ADD)	

d) The device will then detect the IP camera and display images soon.

Note: To configure this recorder to access other IP camera connected remotely for live viewing or video backup, you need to connect this recorder to Internet first.

3. FOR INITIAL USE

For the first time to power on this device, you might be prompted to:

- Go through the setup wizard
- Clear hard disk
- Change default user name and password

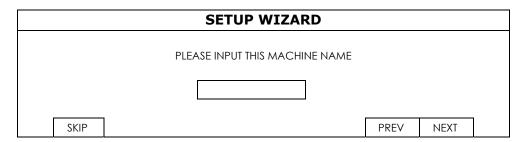
3.1 Setup Wizard

The setup wizard is prompted to guide you finishing the most common settings you might need to do.

Note: It's okay to skip the wizard. You can configure the following settings later in their respective menus.

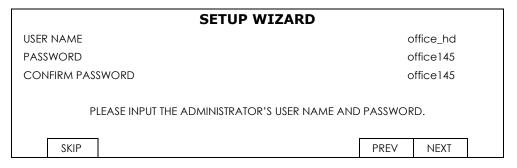


Select **NEXT** to go to the next step.



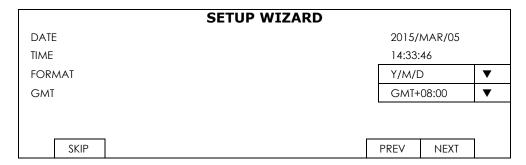
Name the device. If you don't want to name the device, just skip to the next step.

Note: To name the device later, please go to **MAINTAIN** → **SYSTEM**.



Change the default user name and password. If you don't change the user name and password here, you're not able to go to the next step. This step is compulsory.

Note: To change or edit user name and passwords, please go to **SYSTEM** \rightarrow **ACCOUNT** \rightarrow **USER LIST**.



Set the date and time.

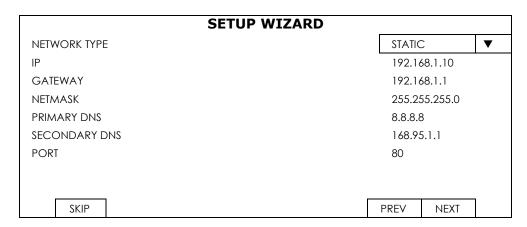
If you don't want to set the date and time now, just skip to the next step. However, it's necessary to keep the date and time right to ensure the accuracy of the recorded data.

Note: To set the date and time later, please go to **MENU** \rightarrow **TIME**.



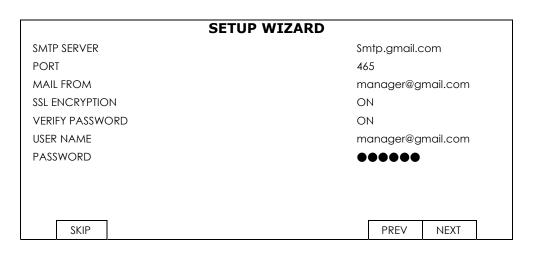
Configure if you want to connect this device to an NTP server to get the right time online.

Note: To set the date and time later, please go to **MENU** \rightarrow **TIME**.



Configure network setup by using the traditional method. For details, please download the instructions from www.surveillance-download.com/user/network setup/network setup recorder.pdf.

Note: To configure network setup by using the traditional method later, please go to **MENU** \rightarrow **NETWORK**.



Configure event notifications by email.

Note: To configure email notifications later, please go to **MENU** → **NETWORK** -> **E-MAIL**.

SETUP WIZARD								
DDNS	ON							
SYSTEM NAME	Eagle	eyes	▼					
HOST NAME	MAC	000E533A3I)					
E-MAIL								
CURRENT HOST ADDRESS								
MAC000E533A3D4A.ddns.eagleeyes.tw								
SKIP	PREV	NEXT						

Enable DDNS if needed.

Note: To enable the DDNS later, please go to **MENU** \rightarrow **NETWORK** \rightarrow **DDNS**.

3.2 Mount Hard Disk

When this device is powered on, you'll see the hard disk indicators are flashing in red, indicating the hard disk are not detected by this recorder.

Right click the mouse to exit from the full screen mode. Click **MENU** \rightarrow **STORAGE** to see the status of each connected hard disks. Click \square one by one to mount them. When you're prompted to clear the hard disk, choose **YES**

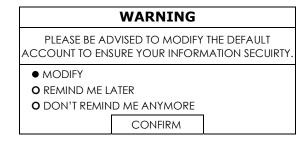
When the hard disk is mounted, the status will be changed from **MOUNTING** to **READY**.

STORAGE											
HDD NEARLY	FULL (GB)		5								
HDD OVERHEAT ALERT (°C) 70										\	
OVERWRITE	OVERWRITE ON										
KEEP DATA LI	KEEP DATA LIMIT(DAYS) OFF										
TEMPERATUR	E TO ENABLE	FAN						30			
REMINDER W	HEN FORMA	ATTING HDD						OFF		\	
	ID	TYPE	STATUS	SIZE	TEMP.	SERIAL NUMBER	FREE SIZE	FORMAT TIME	HEALTH ST	TATUS	
	HDD 5-1	NORMAL	INACTIVE	750GB		WD-WCAV53797317	269.856GB	2017/07/18 23:03:52 GOO)	
① ❖. ▼	HDD 5-2	NORMAL	INACTIVE	1.00TB		WD-WMC1U5344933	9.88GB	2017/07/18 23:10:55	GOOD)	

3.3 Change User Name and Password

It's highly recommended to change the user name and password of this device to keep your account safe. Otherwise, any person could access this device if he knows the default user name and password.

If you didn't go through the setting wizard at the first place, you'll be prompted to change the user name and password:



Choose **MODIFY** to start the change immediately.

To change later, go to **MENU** \rightarrow **ACCOUNT** \rightarrow **USER LIST**, and choose \square to change the default user name and password of **SUPERVISOR**.

USER LIST		USER LIST								
GROUP	EDIT	USER NAME	GROUP							
		admin	SUPERVISOR							
	+									

4. USER INTERFACE

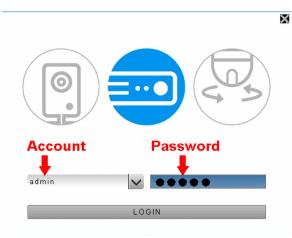
4.1 Local Access

Connect your USB mouse to one of the USB ports on the front panel, and move your mouse to enter the password with the password keypad. The default user name and password are both **admin**.

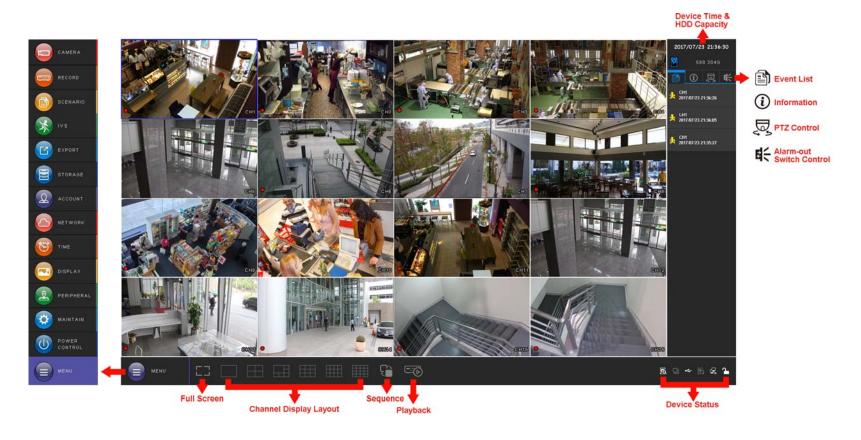
When you log into the system, the display is in the full screen mode. Right click the mouse to show the tool bar and function panel.

Note: You may also customize a user level to have different access privileges in **ACCOUNT** → **GROUP**. For details, please refer to "6.7.2 GROUP" at page 45.

Password Input



4.2 Interface Overview



4.3 Status & Operation

4.3.1 Device Status

Note: The functions shown may vary based on the model or the access user level you use.

	Key lock	J	Key unlock				
	Channel lock	(E)	Channel unlock				
•	USB flash drive / device connected	*	No USB device connected				
Θ	Timer record on	9	Timer record off				
D	Overwrite on		Overwrite off				
口	Sequence mode on		Sequence mode off				
9	PTZ mode on		PTZ mode off				
	USB backup in progress		USB flash drive full				
	USB backup failed		CPU loading				
Netwo	rk Status:						
4	(WAN) Internet connected	₽x	(WAN) Internet disconnected				
	(WAN) Local connection						
(A)	(LAN) DHCP / Static IP mode		(LAN) Camera disconnected				

4.3.2 Channel Status

Note: The functions shown may vary based on the model or the access user level you use.

₽×	Camera disconnected	Ш	Original size	KZ ES	Fit to screen	⊕,	Digital zoom	
	Audio on	100	Audio off	٩	Alarm out		Alarm out disabled	
9	Recording		Alarm event	C.	Motion event	PIR	PIR event	
ॐ	Scene change event		One way pass event	6.0	Virtual fence event			
+	Add a camera by auto search		Add a camera manually	(3)	IP camera setup			

4.3.3 Main Menu

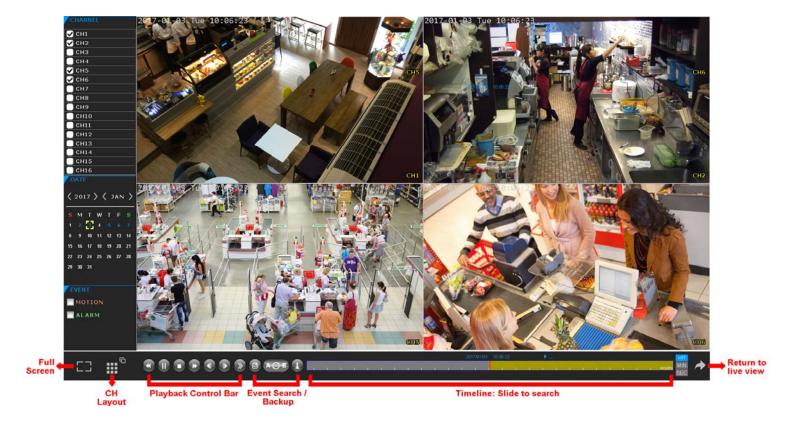
Click **MENU** on the bottom left corner to show the main menu list and its sub items:

	CAMERA	CONNECTION	IP SEARCH
		DEVICE	N 5-25 N 15 N
		IMAGE	BRIGHTNESS
			CONTRAST
			SATURATION
			HUE
		DETECTION	11.02
		ALARM OUT	
		(For selected models only)	
	RECORD	LIVE STREAM	
		RECORD STREAM	
		SUBSTREAM	
	SCENARIO		
*	IVS		
	EXPORT	BACKUP	
		SCHEDULE	
		REGULAR REPORT	
	STORAGE		HDD NEARLY FULL (GB)
			HDD OVERHEAT ALERT (°C)
			OVER WRITE
			KEEP DATA LIMIT(DAYS)
			TEMPERATURE TO ENABLE FAN (°C)
			REMINDER WHEN FORMATTING HDD
	ACCOUNT	USER LIST	
(\mathcal{Q})		GROUP	
	NETWORK	WAN	
		LAN	
_		DDNS	
		E-MAIL	
		FTP	
		MULTICASTING	
		EaZy	
-	TIME	TIME SETUP	DATE
			TIME
			FORMAT
(2)			NTP SERVER
			SYNC PERIOD
			CLIENT TIME SYNC VIA RECORDER
			CLIENT TIME SYNC VIA RECORDER SYNC NTP SERVER TIME
			STACIAL SELVER HIME

	DISPLAY		CHANNEL TITLE
			EVENT STATUS
			AUTO KEY LOCK(S)
			HDD DISPLAY MODE
			DISPLAY OUTPUT
			LANGUAGE
			HDMI2 DISPLAY (For selected models only)
			SPOT MONITOR (For selected models only)
			COMPOSITE OUTPUT (For selected models only)
			VGA OUTPUT (For selected models only)
			CALL SCREEN DURATION
			QUAD SCREEN DURATION
			NVR MODE (For selected models only)
	PERIPHERAL	LOCAL	MOUSE SENSITIVITY
			REMOTE CONTROL ID
8		JOYSTICK	
		ALARM OUT	
		(For selected models only)	
		LOCAL ALARM IN (For selected models only)	
	NAA INITA INI		DAOM ID CONFIC
	MAINTAIN	SYSTEM	BACKUP CONFIG
			RESTORE CONFIG
			RESET DEFAULT
			DEVICE TITLE
			ENABLE AUTO PLUG AND PLAY
			BIND MAC ADDRESS
			RESET ALL GUARD CONNECTION
		UPGRADE	LOCAL
		OI OIVIDE	CAMERA
		ALEDT.	
_		ALERT	EXT. ALERT
X			INT. BUZZER
			KEY BUZZER
			VLOSS BUZZER
			MOTION BUZZER
			ALARM BUZZER
			HDD BUZZER
			ALARM BUZZER DURATION (SEC)
		EVENT LOG	
		ONLINE	ANONYMOLIS VIEWED LOCIN
		ONLINE	ANONYMOUS VIEWER LOGIN
			DROP ALL CONNECTION
			LOGIN FAILURE TIMES
			LOCK TIME FOR LOGIN FAILURES
	DOMED CONTROL	HALT THE SYSTEM	
	POWER CONTROL	TIALI THE STOTEM	
(U)	POWER CONTROL	REBOOT THE SYSTEM	

4.3.4 Playback Panel

Click to go to the playback panel.



- Step1: In **CHANNEL**, choose the channel(s) you want to search.
- Step2: In **DATE**, the date(s) which includes video footage of the selected channel(s) will be marked in blue. Choose the date you want.
- Step3: (Optional) In **EVENT**, choose the event type(s) to narrow down the search if needed.
- Step4: Slide the timeline to search the time segment within which includes video footage. The time segment within which includes video footage is marked in yellow-green.
- Step5: Move to the time segment you want and video playback starts automatically.

Playback Control

→	Fast Forward	Increase the speed for fast forward.
*	Fast Rewind	Increase the speed for fast rewind.
> / 	Play / Pause	Click to play the latest recorded video clip immediately, and click again to pause. In the pause mode, click ▶ once to get one frame forward, and click ◀ to get one frame rewind.
	Stop	Click to stop the video playback.
>>	Slow Playback	Click once to get 1/4X speed playback, and click twice to get 1/8X speed playback.
4 / 	Previous / Next Hour	Click to jump to the next / previous time interval in an hour, for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start playing the earliest event video clip recorded during this whole hour.
	Event List	Click to enter the quick search menu for specific record data search, or select FULL to show all event logs.
A \bigcirc B	Repeat	Click to set point A and point B in a video clip, and the system will play only the specified range in that clip.
Ţ	Backup	Click to open the backup menu for video backup.

5. FREQUENTLY-USED FUNCTIONS

5.1 IP Device Search

Note: This function is applicable only for our brand's IP camera. For other brand's IP camera, please check its user manual to know how to change the IP address manually under the network segment of 10.1.1.xx (xx ranges from $11 \sim 253$).

Go to **MENU** \rightarrow **CAMERA** \rightarrow **CONNECTION**, and select **IP SEARCH** at the bottom right corner. You'll see the list of every connected IP camera with its connection status to this device and MAC address.

	IP SEARCH												
ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR				
	0	IPCAM	10.2.1.33	255.255.255.0	10.2.1.10	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH				
						REFR	ESH	ADD)				

Make sure the IP address of the connected camera is under the network segment of 10.1.1.xx (xx ranges from 11 ~ 253). If not, select and change the network type from **STATIC** to **DHCP**. Then, Click **APPLY** to save your changes.

5	SETUP
NETWORK TYPE	DHCP
IP	10.1.1.14
PORT	88
USER NAME	Admin
PASSWORD	****
NETMASK	255.255.255.0
GATEWAY	10.1.1.10
PRIMARY DNS	8.8.8.8
	CANCEL APPLY

Check \square to assign the camera to a specific channel automatically, and choose **ADD**.

	IP SEARCH												
	ASSIGN	EDIT	DEVICE TYPE	IP	NETMASK	GATEWAY	PRIMARY DNS	PORT	MAC	VENDOR			
V	CH1	0	IPCAM	10.1.1.14	255.255.255.0	10.1.1.10	8.8.8.8	88	00:0E:53:31:06:E5	AVTECH			
							REFR	RESH	ADD)			

5.2 User Account Creation

To create different user account for different access privilege, go to **MENU** \rightarrow **ACCOUNT** \rightarrow **USER LIST**, and choose \boxplus to create a new account.

USER LIST		USER LIST											
GROUP	EDIT	USER NAME	GROUP										
		admin	SUPERVISOR										
	+												

Four user levels are pre-defined in the system for you to quickly choose: SUPERVISOR, POWER USER, USER & GUEST.

Note: You can also customize a user level based on your needs by going to **MENU** → **ACCOUNT** → **GROUP**. For details, please go to "6.7.2 GROUP" at page 45.

Function		User Lo	evel	-
	SUPERVISOR	POWER USER	USER	GUEST
GENERAL				
BACKUP	✓	✓		
PTZ CONTROL	✓	✓		
POWER CONTROL	✓			
REVIEW LOG	✓			
CONFIG SETUP	✓			
CLEAR LOG	✓			
ACCOUNT SETUP	✓			
CLEAR HDD	✓			
PUSH VIDEO	✓			
PUSH STATUS	✓			
ALARM OUT	✓	✓		
LOCAL				
LIVE VIDEO	✓	✓	✓	✓
LIVE AUDIO	✓	✓	✓	
PLAYBACK VIDEO	✓	✓		
PLAYBACK AUDIO	✓	✓		
■ NETWORK				
LIVE VIDEO	✓		✓	✓
LIVE AUDIO	✓		✓	
PLAYBACK VIDEO	✓			
PLAYBACK AUDIO	✓			

5.3 PTZ Control



V=2		
4	Enter	Click to confirm your selection / enter the menu.
A / V / 4 /)	Up / Down / Left / Right	Click the arrow keys (▲ / ▼ / ◀ / ▶) to more the camera lens up / down / left /right.
Camera C	ontrol	
9 / 9	Iris + / Iris -	This two buttons are designed for the PTZ camera which uses Pelco-D to control. To know the actions after clicking Iris + and Iris -, please refer to the camera's user manual.
田/日	Focus near / far	Click to adjust the focus of the image.
Camera C	ontrol	
(4)	Zoom in / out	Click to zoom in / out on the image. Users could also zoom in / out on the image by simply drawing a square on the screen, and the zoom ratio depends on how large the square is. Zoom in: Draw the square from top left to bottom right. Zoom out: Draw the square from bottom right to left top.
+ 1 -	Zoom in / out max	Click to zoom in on the image to the largest / zoom out on the image to its original size.
₽	Auto mode	Click to activate the auto function. Before using it, you need to assign a specific function that will be enabled when is clicked. For details, please refer to the user manual of the camera.
	Auto tracking	Click to start auto tracking when your speed dome camera supports this function.
+	Hot point	Click on the screen to move and center the camera view to the point you just clicked.
*	Config.	Click to configure the speed to pan / tilt the speed dome camera.
4	Joystick	Click to control the movement of a speed dome camera or a motorized-pan camera. Drag and hold the mouse on the screen to move the camera. You'll see ● and on the screen. The farther these two icons, the faster the movement.

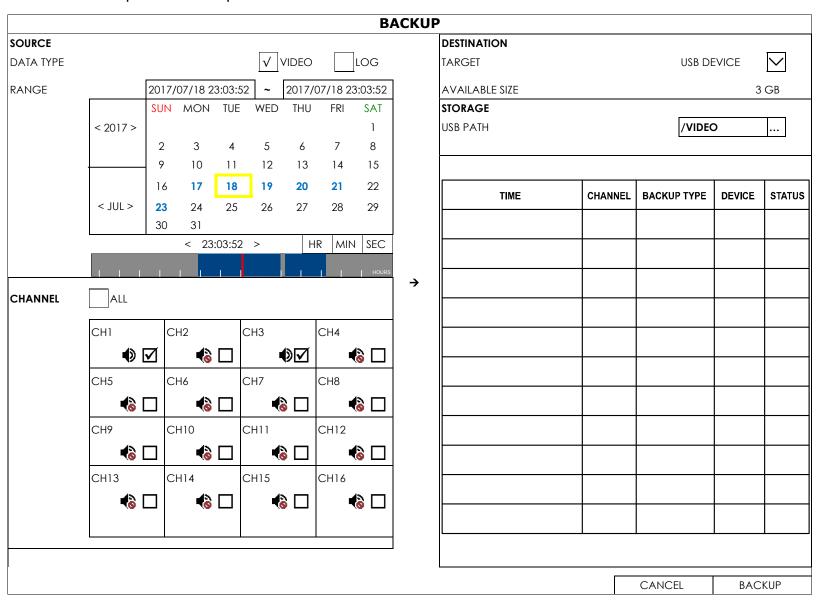
Preset Point		
01 ~ 10	Preset point 01 ~ 10	These ten buttons are used for preset point 1 ~ 10. To set or go to other preset point (such as 15), please enter the numbering manually in the input box next to •, and choose to set the preset point, or • to go to the preset point.
✓	Set preset point	Move the camera view to the point you want to set, and click the numbering you want from 01 ~ 10, or enter the numbering manually in the input box next to Then, click ✓ to confirm.
→•	Go to preset point	To go to the preset point from 1 ~ 10, simply click the button. To go to the other preset point out of 10, enter the numbering manually in the input box next to •, and choose • to confirm.

5.4 Video Backup

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIS at page 72.

Note: For video backup, please use USB flash drive or back your data up over the Internet. It's **NOT** allowed to connect the hard disk to your PC and get the video data directly.

To copy recorded data for video backup, click to go to the playback panel, and choose \bot at the bottom tool bar to open the backup menu:



Step1: In **SOURCE**, choose the data type (**VIDEO** or **LOG**) and the time range you want to copy from the calendar. The date with video recording will be shown in blue.

Step2: In **CHANNEL**, choose the channel(s) you want.

Step3: The video footage can only be saved to a USB device. Specify where to save in the USB device in **STORAGE**.

Step4: Choose **BACKUP** to start. The backup video will be in the AVI format.

5.5 System Logout

When different user accounts are created for system management, make sure you log out after your access in case other people access the system with your account.

Choose $\mathbf{MENU} \to \mathbf{POWER}$ CONTROL, and choose \mathbf{C} to log out the system.



Note: The default user name and password are both **admin**, which is the highest user level.

5.6 Hardware Reset

This is used when you lose the access user name and / or password. This will reset your recorder to its factory default values.

For 8-bay 36CH & 16CH models

- Step 1: Power off your recorder.
- Step 2: Find a pinhole on the rear panel of your recorder, next to the VGA port.
- Step 3: Use a thin sturdy object, such as a straightened paperclip, and push it through the hole to press the reset button. Press and hold the button, and power on your recorder at the same time. Release the button when you hear the second beep sound. You'll see the reset message on the screen.

> For 16CH models without PoE

- Step 1: Power off your recorder and remove the top case to reveal the main board of the recorder.
- Step 2: Find the two points of HT1 & HT2 on the mainboard. These two points are for hardware reset.
- Step 3: Use a thin sturdy object, such as a paperclip or forceps, to touch these two points at the same time for short circuit.
- Step4: With the two points touched, power on your recorder and wait till you hear the second beep sound and the reset message shows on the screen.



For 16CH & 9CH models with PoE

- Step 1: Power off your recorder.
- Step 2: Open the top case of the recorder to reveal the main board, and find a *blue* button on the board. It's the hardware reset button.
- Step 3: Press and hold the blue button, and power on your recorder at the same time. Release the button when you hear the second beep sound and the reset message shows on the screen.

6. MAIN MENU

6.1 CAMERA

6.1.1 CONNECTION

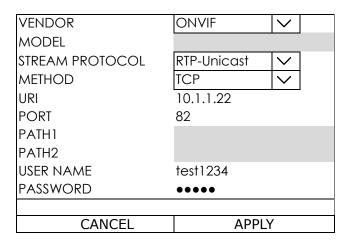
To know how to add our brand's IP cameras automatically, please refer to "2.3 Camera IP Configurations by LAN" at 9.

To manually add a camera connected locally or remotely, click 🗹 to enter the setup page.

Note: Before connecting other brand's IP camera, make sure its IP address is set to 10.1.1.xx (xx ranges from $11 \sim 253$). To know how to change the IP address of the camera, please refer to its user manual.

					CONN	ECTION					
EDIT	□ENABLE	CHANNEL TITLE	URI	PORT	DEVICE TYPE	VENDOR	MODEL	STREAM PROTOCOL	METHOD	PATH1	PATH2
		CH1	10.1.1.11	88	IPCAM			RTP-Unicast	HTTP		
+											
										IP SE/	ARCH

In the setup page, enter the access information of the camera, and click **APPLY** to confirm.



6.1.2 DEVICE

	DEVICE													
CHANNEL TITLE	ENABLE	FC	PORT DRWARD	CAMER TYPE		ALARM (TUC	(OSD TITLE	:	C)SD LOG(0	
CH1	11	0 5 20	\bigotimes	81	AUTO	~	3	~	\bigotimes	UP LEFT	~	(UP LEFT	~
CH2	७ ₽ ₽₽	0 5 20	\odot	82	AUTO	~	3	~	②	UP LEFT	~	②	UP LEFT	~
CH3	७ ₽ ₽७	0 5 20	\odot	83	AUTO	~	3	~	②	UP LEFT	~	②	UP LEFT	~
CH4	11 • 1 • Q • •	0 5 20	\odot	84	AUTO	~	3	~	②	UP LEFT	~	②	UP LEFT	~
			•	•				•						
	APPLY													

1) CHANNEL TITLE

Click to revise the channel title (up to 63 characters). The default title is the channel number.

2) ENABLE

Here shows the functions you can enable or disable:

Note: The icons available depend on the camera you connected.

Icon	Meaning	Description
1 / 🖾	Time stamp on / off	Display the recording time or not.
• / 🛇	Edge recording on / off	Enable this function to allow video recording directly to the microSD card inserted in the IP camera when the NVR is disconnected to the camera and unable to work properly.
1 / 2	Recording transfer on / off	When edge recording is on, enable this function to allow the video saved in the microSD card of the camera transferring to the NVR when the NVR is reconnected to the camera and work properly.
/ 🔳	Audio recording on / off	Enable or disable audio recording for the selected channel if the connected camera supports audio recording.

3) CACHE TIME (MSEC)

Drag the slide bar to change the cache time which determines the buffering time of playback.

Note: To speed up the camera's operation, especially for the PTZ camera, you may set the CACHE TIME (MSEC) as zero, but this change may debase the transmission quality.

4) PORT FORWARD

This function is used when you only want to see a single channel of this recorder remotely.

- a) Set the port number for the channel in **PORT FORWARD**. The default value for CH1 is 81, and the default value for CH2 is 82... etc. If you want to change the port number to other value, the range is from 1 ~ 65535.
- b) Switch **(State Property of State Property of Switch (State Property of Switch (Switch (State Property of Switch (State Property of Switch (State Property of Switch (Switch (Switch (State Property of Switch (Switch (Switch**

The address of the channel will be "http://recorder_address:port_number". Enter the address in Internet Explorer, and see if you can access the device connected channel individually.

Note: The user name and password are still required to access the device connected to the channel. Make sure you know the user name and password to access the device. For details, please refer to its user manual.

5) CAMERA TYPE

Here shows the camera type which is detected automatically.

6) ALARM OUT (Depending on the camera you connected)

This function is used to set how long the device should work in seconds when the six is clicked on the camera channel.

Note: An alarm-out device (such as a buzzer) should be connected to an IP camera first for this function to take effects. To configure the alarm-out device connected to the recorder itself, please refer to "6.11.3 ALARM OUT" at page 53.

5.1.3 IMAGE

Click to manually adjust the brightness / contrast / saturation / hue by channel.

	IMAGE											
	1		I	I	I							
EDIT	CHANNEL TITLE	BRIGHTNESS	CONTRAST	SATURATION	HUE							
	CH1	128	128	140	128							
	CH2	128	128	140	128							
	СН3	128	128	140	128							
	CH4	128	128	140	128							

6.1.4 DETECTION

	DETECTION										
CHANNEL TITLE	ALARA	Λ	INTERNAL ALARM		SENSITIVITY		MOTION	AREA	ADVANCED CONFIG		
CH1	OFF	\	ON	2	1	0	ON	EDIT	ROI 🕏		
CH2	N.C.	~	OFF	2	1	0	OFF	EDIT	ROI 🕏		
CH3	N.O.	~	OFF	2	1	0	OFF	EDIT	ROI 🕏		
CH4	OFF	~	OFF	2	1	0	OFF	EDIT	ROI 🕏		
									APPLY		

1) ALARM

This function is used when the connected IP camera is our brand's IP camera and it has an alarm-in device connected, such as infrared sensors. Select **N.C.** / **N.O.** depending on your installation need. The default alarm value is **OFF**.

2) INTERNAL ALARM

Select if you want to activate the PIR detection function for the selected channel (ON / OFF).

Note: This option is available only when the camera you connected has a PIR sensor built-in.

3) SENSITIVITY

Select the detection sensitivity of the selected channel. 2 is the highest sensitivity.

4) MOTION

Select if you want to activate the motion detection function for the selected channel (ON / OFF).

5) AREA

Click **EDIT** to set the motion detection area.

There are 16 × 12 grids per camera for all channels. Pink blocks represent the area that is not being detected while the transparent blocks are the area under detection.

Note: To exit area setting and return to the detection page, right click your mouse.

6) ADVANCED CONFIG

The advanced settings are available only when the connected camera supports.

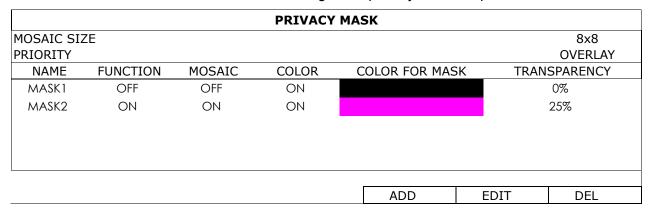


The options within this function should work with CMS PRO to take effects. For details, please check with your installer or distributor.

PRIVACY MASK										
SCENE CHANGE	OFF									
DEFOCUS	OFF									
ENABLE OBJECT DETECTION	OFF									
ENABLE FACE DETECTION	OFF									
	APPLY									

■ Privacy mask

You can cover certain areas on the camera image with privacy masks. Up to 20 areas could be added.



Select **ADD** to add a new setting, **EDIT** to modify an existing setting, and **DEL** to remove a setting.

PRIVACY MASK - EDIT								
NAME	MASK3							
FUNCTION	ON							
MOSAIC	ON							
COLOR	ON							
COLOR FOR MASK								
TRANSPARENCY	50%							
LINE WIDTH	0							
MASK AREA	SETUP							

Item	Description
MOSAIC SIZE	Choose the mosaic size of the privacy mask. The options are: 8x8, 32x32, and 64x64.
NAME	Name your privacy mask.
FUNCTION	Select "On" to enable the privacy mask function.
MOSAIC	Select "ON" to have the mosaic effect.
COLOR	Select "ON" to color the privacy mask. In the meantime, you can't see the mosaic effect.
COLOR FOR MASK	Select the color for the privacy mask.
TRANSPARENCY	Select the transparency for your privacy mask. The options are: 0%, 25%, 50%, and 100%. When 100% is chosen, no color is shown but only the mosaic effect for the mask area.
LINE WIDTH	Select if you want to know where the mask area is especially when the transparency is set to 100%. This function will add a border for the mask area. The options are: 0, 2, 4 and 6. When 0 is chosen, no border is added.
MASK AREA	Select "SETUP" to enter the area selection page. To exit, right click.

■ ROI (Region of Interest)

ROI is used to reinforce the image quality of the selected area(s). Users could specify two areas in the camera view.

	REGION OF INTERE	ST
REGION	ENABLE	QUALITY
1	ON	7
2	OFF	7
		EDIT

Select REGION 1 or REGION 2, and choose EDIT to change the setting.

RE	REGION OF INTEREST - EDIT										
ENABLE		ON									
QUALITY		0 5 10									
AREA		SETUP									
	APPLY										

■ Camera Guard

This function is used to lock the camera to a fixed point and no pan action could be made until the lock mode is disabled. Before using this function, make sure:

- 1. You've configured at least one preset point and one preset group for the connected camera.
- 2. You have an iOS or android mobile device with our free app, EagleEyes, installed.
- 3. Your recorder is connected to Internet, and registered in the address book of EagleEyes.

CAMERA GUARD - CH1		
GUARD LOCK	10	1
TIMEOUT (SECS)	30	~
PRESET GROUP	1	~
PRESET NUMBER	1	~
	APP	LY

Item	Description
GUARD LOCK	Enable (ON) or disable (OFF) this function.
TIMEOUT (SECS)	Configure the timeout in seconds (30 / 60 / 90 / 120) after which the camera will be fixed to the current point and any attempt to pan the camera to another point will be failed.
PRESET GROUP	Choose the group where the point you'd like to use is configured, and go to PRESET NUMBER to choose the preset point number.
PRESET NUMBER	Choose the preset point number you'd like to use when GUARD LOCK is enabled.

6.1.5 ALARM OUT

Note: An alarm-out device (such as a buzzer) should be connected to an IP camera first for this function to take effects. To configure the alarm-out device connected to the recorder itself, please refer to "6.11.3 ALARM OUT" at page 53.

This function is used when the external alarm-out device is connected to an IP camera. You can configure an alarm-out device to activate continuously or activate only for a period of time when it's triggered.

In RESTORE AUTOMATICALLY,

- Choose **DISABLE** to allow the device to activate continuously when it's triggered unless you switch it off manually from the alarm-out switch control panel (与) on the live view.
- Choose **ENABLE** to allow the device to activate only for a period of time (1 / 3 / 5 / 10 / 20 / 30 / 60 / 120 / 180 seconds) when it's triggered.

	ALARM OUT										
CHANNEL TITLE	NAME	RESTORE AUTOMATICALLY	ALARM OUT DURATION (SE	CS)							
CH1	alarmout-ch1	DISABLE	1	~							
CH2	alarmout-ch2	ENABLE	5	~							
CH3											
CH4											
			APPLY								

6.2 RECORD

Set the image size, video quality and other related parameters individually for live display, record streaming and sub streaming.

Note: The settings shown below depend on the setting tab you selected in this setting page.

- a) **D.O.R** (Depend on record): When this option is checked, the video size, quality and other related parameters will follow the configurations in **RECORD STREAM**.
- b) **PROFILE**: Select the video profile pre-defined in your IP cameras. You can directly use the profile setting, or modify the setting on this page.
- c) **TYPE**: Select the compression format for each channel.

Note: The options selectable for **TYPE** depend on the camera you're intended to connect.

d) **IMAGE SIZE**: Select the image size for each channel.

Note: The options selectable for **IMAGE SIZE** depend on the camera you're intended to connect.

- e) **QUALITY**: Select the video quality for each channel. The higher the value, the better the image quality.
- f) I.P.S.: Image per Second, the higher the value, the more fluent the video.

Note: The options selectable for "I.P.S." depends on the camera you're intended to connect.

- g) **BITRATE (kbps)**: Select how much data to process per unit of time for each channel. The higher the value, the better the video quality.
- h) **BITRATE CONTROL**: Configure the upper bit rate limit for the selected channel if necessary.
 - VBR When the bit rate of the camera exceeds the value you set, the video fluency may be affected;
 - CBR When the bit rate of the camera exceeds the value you set, the image quality may be affected.
- i) **G.O.V.**: "Group of VOPs" is used to configure the length of G.O.V. The greater of the value, the less the bandwidth for transmission, and the poorer the image quality.

■ LIVE

VIDEO SOURCE CONFIG														
LIVE	RECORD STI	REAM	SUBSTR	EΑ	M									
CHANNE	L D.O.R	PROFIL	E		TYPE		IMAGE SIZE		QUALITY	I.P.S.		BITRATE (kbps)	BITRATE CONTROL	G.O.V.
СН1		PROFIL	E-3	~	H265	~	720 X 480	~	0 5 10	30	~	2048	VBR	30
CH2		PROFIL	E-3	/	H264	>	1280 x 1024	>	0 5 10	30	>	2048	VBR	30
СН3		PROFIL	E-3	/	H264	>	1280 x 1024	>	0 5 10	30	>	2048	VBR	30
CH4		PROFIL	E-3	/	H264	>	1280 x 1024	>	0 5 10	30	>	2048	VBR	30
														APPLY

■ RECORD STREAM

VIDEO SOURCE CONFIG													
LIVE	/E RECORD STREAM		SUBSTREAM										-
PROFILE-1		~		1									
CHANN	IEL	PROFIL	.E	TYPE		IMAGE SIZE		QUALITY	I.P.S.		BITRATE (kbps)	BITRATE CONTROL	G.O.V.
CH1		PROFIL	E-3 🗸	/ H265	~	720 X 480	~	0 5 10	30	~	2048	VBR	30
CH2		PROFIL	E-3 🗸	/ H264	~	1280 x 1024	~	0 5 10	30	~	2048	VBR	30
СН3		PROFIL	E-3 🗸	/ H264	~	1280 x 1024	~	0 5 10	30	~	2048	VBR	30
CH4		PROFIL	E-3 🗸	H264	~	1280 x 1024	~	0 5 10	30	~	2048	VBR	30
			•	•		•			•				
													APPLY

■ SUB STREAM

VIDEO SOURCE CONFIG														
LIVE	RECORD ST	REAM	eam substream		AM.									
CHANN	EL	PROFIL	.E		TYPE		IMAGE SIZE		QUALITY	I.P.S.		BITRATE (kbps)	BITRATE CONTROL	G.O.V.
СН1		PROFIL	.E-3	~	H265	~	720 X 480	~	0 5 10	30	~	2048	VBR	30
CH2		PROFIL	.E-3	~	H264	~	1280 x 1024	~	0 5 10	30	~	2048	VBR	30
СНЗ		PROFIL	.E-3	>	H264	~	1280 x 1024	~	0 5 10	30	>	2048	VBR	30
CH4		PROFIL	.E-3	>	H264	~	1280 x 1024	~	0 5 10	30	>	2048	VBR	30
									•					
														APPLY

6.3 SCENARIO

This function allows you to customize a series of actions which will be run automatically after the specified event occurs.

Several scenario rules are pre-defined for you to quickly choose and apply. If none of these rules are suitable for you, you can choose \boxplus to create your own rule from several scenario templates.

		SCENARIO			
EDIT	NAME	TRIGGER	ACTION	TIMER	STATUS
	MOTION RECORD	ALL CHANNELS	START RECORDING EVENT CHANNEL		OFF
	ALARM RECORD	ALL CHANNELS	START RECORDING EVENT CHANNEL		OFF
	GUARD RECORD	GUARD	START RECORDING ALL CHANNELS		ON
	PUSH VIDEO NOTIFICATIONS (PIR)	GUARD,MOTION(CH1), PIR(CH1)	PUSH VIDEO TO SEE PLAYBACK		ON
	PUSH VIDEO NOTIFICATIONS (ALARM)	GUARD,MOTION(CH1),ALARM(CH1)	PUSH VIDEO TO SEE PLAYBACK		ON
	MANUAL RECORD		START RECORDING ALL CHANNELS	EVERYDAY	ON
	PUSH STATUS	ALL SYSTEM STATUSES	PUSH STATUS	EVERYDAY	ON
	EVENT POP-UP ON LIVE MONITOR (MOTION & ALARM)	MOTION(ALL CHANNELS),ALARM(ALL CHANNELS)	POP UP EVENT ON LIVE MONITOR		ON
	GUARD ON (MOTION DETECTION)	GUARD			ON
	GUARD ON (PIR DETECTION)	GUARD			ON
	GUARD OFF (MOTION DETECTION)	GUARD			ON
	GUARD OFF (PIR DETECTION)	GUARD			ON
	EVENT POP-UP ON EVENT MONITOR (MOTION & ALARM)	MOTION(ALL CHANNELS),ALARM(ALL CHANNELS)	PLAYBACK VIDEO ON EVENT MONITOR		ON
+					

6.3.1 Pre-defined Scenarios

There are 13 pre-defined scenarios for you to quickly enable the recording and notification functions which are used frequently.

Note: All pre-defined scenarios are not editable. If any changes should be made to suit your need, please add a scenario rule manually.

1) MOTION RECORD

All channels are selected in this rule. The recorder starts recording the channel which has a motion event. Scenario template used: **ONE OF (EVENT) TO (RECORD)**.

2) ALARM RECORD

All channels are selected in this rule. The recorder starts recording the channel which has an alarm event. Scenario template used: **ONE OF (EVENT) TO (RECORD)**.

Note: The alarms here refer to the alarm devices connected to the IP cameras or the NVR. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

3) GUARD RECORD

When **Guard** is enabled from EagleEyes, our mobile app, the recorder starts recording all channels. Scenario template used: **ONE OF (EVENT) TO (RECORD)**.

4) PUSH VIDEO TRIGGERED BY BUILT-IN PIR SENSOR (For selected models only)

When motion & PIR events occur simultaneously, you'll receive Push Video on your mobile device. Scenario template used: **ALL OF (EVENTS) TO DO (ACTION) AND THEN (ACTION)**.

Note: To know how to enable Push Video, please refer to "APPENDIX 2 PUSH VIDEO CONFIGURATIO" at page 69.

5) PUSH VIDEO TRIGGERED BY EXTERNAL ALARM (For selected models only)

When motion & alarm events occur simultaneously, you'll receive Push Video on your mobile device. Scenario template used: **ALL OF (EVENTS) TO DO (ACTION) AND THEN (ACTION)**.

Note: The alarms here refer to the alarm devices connected to the IP cameras or the NVR. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

Note: To know how to enable Push Video, please refer to "APPENDIX 2 PUSH VIDEO CONFIGURATIO" at page 69.

6) MANUAL RECORD

All channels are selected in this rule. The recorder starts recording all channels at the specified time. Scenario template used: **START (RECORD) AT (TIME)**.

7) SEND PUSH STATUS FOR HEALTH CHECK

All system health events are selected in this rule. When one of the health events occurs at the specified time range, you'll receive Push Status on your mobile device.

Scenario template used: ONE OF (HEALTH EVENT) OCCURRED AT (TIME) TO SEND PUSH STATUS.

8) POP-UP ON LIVE MONITOR (MOTION AND EXTERNAL ALARM EVENT)

All channels are selected in this rule. When any motion or alarm event occurs, you'll see pop-up messages on the right pane (Event List) of the monitor.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

Note: The alarms here refer to the alarm devices connected to the IP cameras or the NVR. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

9) MOTION DETECTION ON WHEN GUARD ON (For selected models only)

All channels are selected in this rule. When **Guard** is enabled from EagleEyes, our mobile app, the motion detection of all channels is also enabled automatically.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

Note: Motion detection and alarm / PIR detection are two essential elements to trigger Push Video.

10) INTERNAL ALARM (PIR) DETECTION ON WHEN GUARD ON (For selected models only)

All channels are selected in this rule. When **Guard** is enabled from EagleEyes, our mobile app, the PIR detection of all channels is also enabled automatically.

Scenario template used: **ONE OF (EVENT) TO DO (ACTION)**.

Note: The alarms here refer to the alarm devices connected to the IP cameras or the NVR. For the alarm events triggered by the PIR sensor built into the camera, please choose PIR instead.

11) MOTION DETECTION OFF WHEN GUARD OFF (For selected models only)

All channels are selected in this rule. When **Guard** is disabled from EagleEyes, our mobile app, the motion detection of all channels is also disabled automatically.

Scenario template used: **ONE OF (EVENT) TO DO (ACTION)**.

12) INTERNAL ALARM (PIR) DETECTION OFF WHEN GUARD OFF (For selected models only)

All channels are selected in this rule. When **Guard** is disabled from EagleEyes, our mobile app, the motion detection of all channels is also disabled automatically.

Scenario template used: **ONE OF (EVENT) TO DO (ACTION)**.

13) PLAYBACK ON EVENT MONITOR (MOTION & EXTERNAL ALARM EVENT)

All channels are selected in this rule. When any motion or alarm event occurs, you'll see video playback on the monitor you set for **HDMI2 DISPLAY**.

Scenario template used: ONE OF (EVENT) TO DO (ACTION).

Note: You'll also need to manually choose **EVENT MONITOR** and configure related settings in **DISPLAY** → **HDMI2 DISPLAY**. For details, please refer to "6.10 DISPLAY" at page 49.

Note: The functions available depend on the recorder you have.

Click \pm and choose a template where you can press the button of **EVENT**, **RECORD**, **TIME** or **ACTION** to customize all your events and further actions:

- 1. ONE OF (**EVENT**) TO (**RECORD**)
- 2. ONE OF (EVENT) AT (TIME) TO DO (ACTION) AND THEN (ACTION)
- 3. AT (TIME) TO DO (ACTION) AND THEN (ACTION)
- 4. ALL OF (EVENTS) TO DO (ACTION) AND THEN (ACTION)
- 5. (EVENTS) TO TRIGGER (RECORD)
- 6. START (RECORD) AT (TIME)
- 7. ONE OF (HEALTH EVENT) OCCURRED AT (TIME) TO SEND PUSH STATUS
- 8. ONE OF (EVENT) TO DO (ACTION) AND THEN (ACTION)
- 9. ONE OF (EVENT) TO DO (ACTION)

EVENT

Up to 5 events could be added to the event list when you click the **EVENT** button.

Option		Description
MOTION and ALARM	MOTION	Choose at least one channel which has enabled motion detection.
	ALARM	Choose at least one channel which has connected to our brand's camera and an alarm sensor is connected to the camera.
	PIR	Choose at least one channel which has connected our brand's camera with a PIR sensor built-in.
IVS	FLOW COUNTING IN	Choose at least one channel which has enabled
	FLOW COUNTING OUT	flow counting / one way / virtual fence / scene
	ONE WAY PASS	change depending on the option you've chosen.
	VIRTUAL FENCE	
	CAMERA SCENE CHANGE	
HEALTH CHECK	LOGIN LOCKED	Choose at least one status that you want to pay
	SYSTEM ERROR	attention to.
	VIDEO LOST	
	VIDEO PLUGIN	
	NET LOGIN	
	POWER ON	
	UPS POWER LOST	
	UPS POWER RECOVERED	
	WAN UNPLUGGED	
	WAN PLUGIN	
	INTERNET CONNECTED	
	LAN PLUGGED	
	LAN PLUGIN	
	HDD CLEAN	
	HDD OVER TEMPERATURE	
	NO HDD EXIST	
	KEY UNLOCKED	
	FAN BROKEN	
	FAN REPAIRED	
GUARD	GUARD	Enable or disable Push Video.

RECORD

Option		Description
START RECORDING EVENT CHANNEL	GROUP	Choose the record profile group you want defined in MENU → RECORD → RECORD STREAM when event recording is on.

<u>TIME</u>

Option	Description
EVERYDAY	Choose the pre-defined time range within which
HOLIDAY	you want to activate the scenario rule.
WEEKDAY	
\pm	Click to customize the time range within which you want to activate the scenario rule.

ACTION

Up to 5 actions could be added to the action list when you click the **ACTION** button to combine a series of actions you'd like to have.

Option		Description
RECORDER	RECORD	Choose at least one channel to start recording, and the record profile to use when recording is on.
	RESTORE RECORD PROFILE	Restore the record profile group when the specified action is off.
	SET RECORD PROFILE	Choose the record profile group defined in MENU → RECORD → RECORD STREAM.
	START RECORDING EVENT CHANNEL	Choose the record profile group defined in MENU → RECORD → RECORD STREAM which is used for event-channel recording.
	STOP RECORDING EVENT CHANNEL	
	START RECORDING ALL CHANNELS	Choose the record profile group defined in MENU → RECORD → RECORD STREAM which is used for all-channel recording.
	STOP RECORDING ALL CHANNELS	
NOTIFICATION	PUSH VIDEO TO SEE PLAYBACK	When Push Video is received on the mobile device, slide to see event playback.
	PUSH VIDEO TO SEE LIVE	When Push Video is received on the mobile device, slide to see live images.
	PUSH MESSAGE	Enter the message you want to see on your mobile device when an event occurs.
	PUSH STATUS	Send Push Status to your mobile device.
	POP UP EVENT ON LIVE MONITOR	Choose at least one channel to show event icons, notifications and playback preview on the right pane of the live display.
	PLAYBACK VIDEO ON EVENT MONITOR	Choose at least one channel to show its event recording when an event occurs on the event monitor you configured in MENU → DISPLAY .
	VIDEO MAIL	You can choose to receive notifications by Email
	EMAIL SNAPSHOT	in four ways:
	EMAIL STATUS	1. Event videos
	EMAIL TEXT	 2. Snapshots 3. Abnormal status 4. Text Make sure at least a recipient is selected in RECEIVER and configure the related settings in each setting page.
	UPLOAD VIDEO TO FTP	You can choose to upload event videos or
	UPLOAD SNAPSHOT TO FTP	snapshots to the FTP site pre-defined in MENU → NETWORK → FTP .
		Make sure at least an FTP site is selected in PROFILE , and configure the related settings in

each setting page.

Option		Description
CAMERA	PRESET	Choose the channel with a speed dome camera connected, and choose a preset point you want the camera to move to.
		To know how to set a preset point, please refer to "5.3 PTZ Control" at page 22.
	AUTO TRACKING	Choose the channel with a speed dome camera connected, and the camera supports auto tracking.
	CAMERA GUARD	Choose the channel with our brand's speed dome camera or motorized-pan camera connected, and enable this function to move the camera view to the preset point you specified. To know how to use this function, please refer to "ADVANCED CONFIG" in "6.1.4 DETECTION" at page 27.
	ENABLE MOTION	Choose at least one channel you want to enable motion detection.
	ENABLE PIR	Choose the channel with our brand's PIR camera connected.
I/O	RECORDER ALARM OUT	Choose to automatically activate the alarm-out device connected to the recorder.
	CAMERA ALARM OUT	Choose the channel with our brand's IP camera connected, and an alarm-out device (such as a buzzer) is connected to the camera. This option will automatically activate the alarm-out device connected to the camera.
	BUZZER	Choose to activate the buzzer built in the recorder to alert you.
MISC	DELAY	Set a timeout between each action.

6.4 IVS

This function is available only when the connected IP camera supports this function.

	IVS							
	IVS MODE		DISPLAY LINE	SCENE CHANGE	SCENE CHANGE LEV	√EL	SENSITIVITY	
CH1	FLOW COUNTING	>	OFF	OFF	MIDDLE	>	0 15	4 . /
CH2								
СН3	ONEWAY	<	OFF	OFF	MIDDLE	>	0 15	4 . /
CH4								

1) IVS MODE

Select one of the following three modes depending on your environment:

MODE	DESCRIPTION
FLOW COUNTING	A virtual detection line is set to detect the moving direction of pedestrians for flow counting.
VIRTUAL FENCE	A virtual detection line is set to detect intruders crossing the detection line, and an alarm will be triggered.
ONE WAY	A virtual detection line is set to detect intruders from the specified direction, and an alarm will be triggered.

2) DISPLAY LINE

Select to display the detection line for IVS on the screen or not.

3) SCENE CHANGE

Select **ON** to trigger a motion event when the camera is sensed to be moved and the camera scene is changed. At the same time, the icon ">" will be also shown on the screen in addition to the motion icon ">"."

4) SCENE CHANGE SENSITIVITY

Set the detection sensitivity for **SCENE CHANGE** to **HIGH**, **MIDDLE** or **LOW**.

5) **SENSITIVITY**

Set the sensitivity for IVS from 0 ~ 15. The larger the value, the more sensitive the IVS will be.

6) DISPLAY LINE

Select to display the detection line for IVS on the screen or not.

7) (Clear) & (Edit)

Select to clear the flow counting number, and to enter the setting page to set the detection line. For details, please refer to the next section, "IVS Application".

FLOW COUNTING

Step1: Click to enter the setting page and draw a detection line with your mouse, and decide the detection direction by selecting **REVERSE**.



Step2: Click **APPLY** to finish the IVS setting and return to the live view.

When anyone walks across the detection line, the system will determine his movement is in or out, and add one count to the corresponding channel on the flow counting panel.

IN	People coming from the opposite direction to the arrow mark.
OUT	People coming from the same direction as the arrow mark.



VIRTUAL FENCE and ONE WAY

Step1: Click to enter the setting page and draw a detection line with your mouse, and decide the detection direction by selecting **REVERSE**.



Step2: Click **APPLY** to finish the IVS setting and return to the live view.

When anyone walks across the detection line, the system will determine his movement is in or out, and:

VIRTUAL FENCE	An event happens for anyone walking across the detection line, and "Å" will be shown on the screen.
ONE WAY	An event happens for anyone walking from the opposite direction to the arrow mark, and "" will be shown on the screen.



6.5 EXPORT

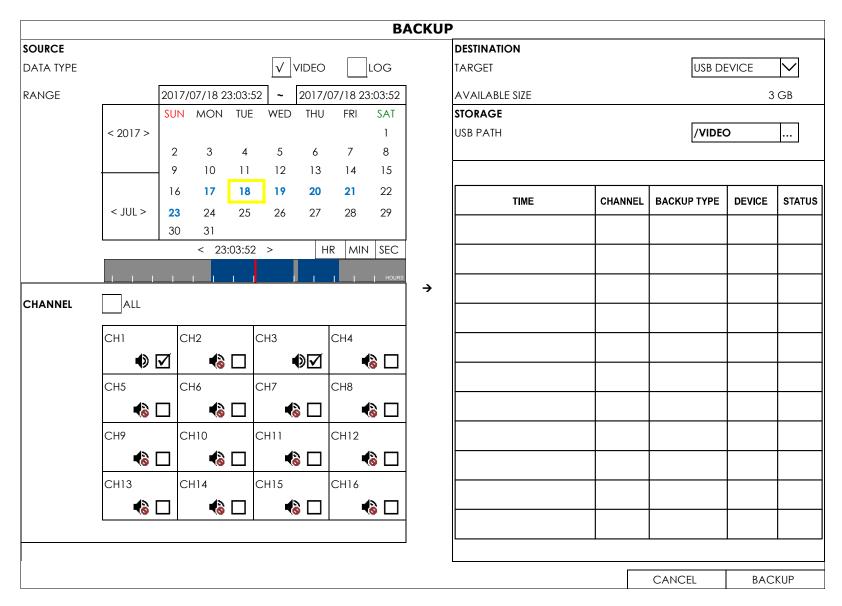
6.5.1 BACKUP

Note: Before using your USB flash drive for video backup, please format it to "FAT32" first with your PC or laptop. For the list of compatible USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIS at page 72.

Note: Video backup could be made via a USB flash drive or the Internet. It's **NOT** allowed to connect the hard disk to your PC / laptop directly for it may impair the recorded data saved in the hard disk.

To copy recorded data for video backup, click \pm to add an item for backup. You can add several items to copy different data you need.

		BACKUP			
1 +					
□ SELECT	TIME	CHANNEL	BACKUP TYPE	DEVICE	STATUS
	2017/07/18 23:03:52 ~ 2017/07/18 23:03:52	CH1	VIDEO	USB DEVICE	25%



Step1: In **SOURCE**, choose the data type (VIDEO or LOG) and the time range you want to copy from the calendar. The date with video recording will be shown in blue.

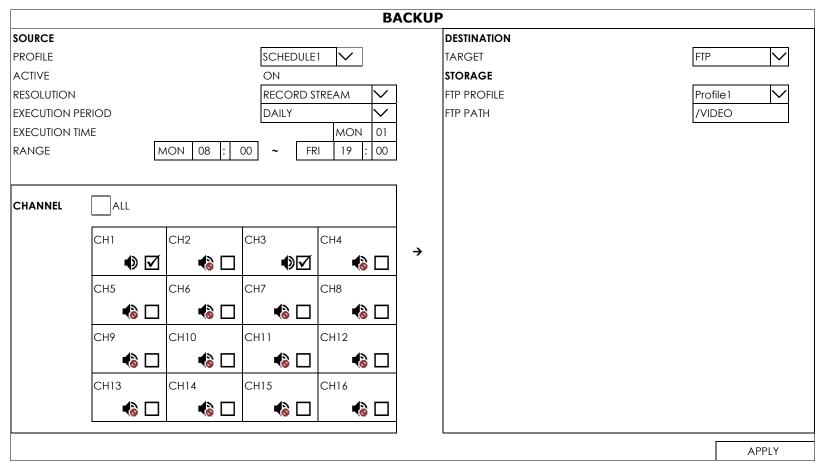
- Step2: In **CHANNEL**, check the channel(s) you want.
- Step3: The video footage can only be saved to a USB device. Specify the where to save in the USB device in **STORAGE**.

Step4: Choose **BACKUP** to start. The backup video will be in the AVI format.

6.5.2 SCHEDULE

This function is used to schedule video backup regularly, uploading security footages to a FTP site (remotely) or saving to an USB device connected to this device (locally).

You can configure up to 7 profiles and use one of them as your backup preference.



Step1: In **SOURCE**, choose the profile you'd like to save all the settings configured in **SOURCE**.

Choose the video resolution (**SUBSTREAM** / **RECORD STREAM**), how often and when you'd like the backup to execute (**EXECUTION PERIOD** / **EXECUTION TIME**), and the time which includes the recordings you want (**RANGE**).

Step2: In CHANNEL, check the channel(s) you want.

Step3: In **DESTINATION**, choose where you want to save the data, in a USB flash drive (**USB DEVICE**) or on FTP (**FTP**).

Step4: (Optional) If **FTP** is chosen in **DESTINATION**, go to **STORAGE**, and choose the profile you'd like to save the storage path configured in **FTP PATH**.

Then, specify the directory where you'd like the recordings to be uploaded in **FTP PATH**.

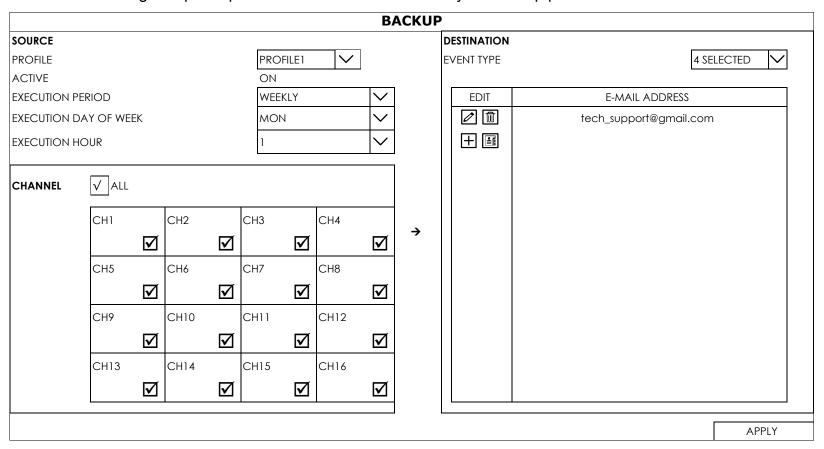
Step5: Click **APPLY** to confirm.

6.5.3 REGULAR REPORT

This function is used to send event reports to the specified E-mail address. Users could configure up to 5 profiles to receive different reports about specific channels at different time.

Note: This function is available only when a hard disk is installed, and the recorder is connected to Internet.

You can configure up to 7 profiles and use one of them as your backup preference.



Step1: In **SOURCE**, choose the profile you'd like to save all the settings configured in **SOURCE**.

Choose how often and when you'd like to receive reports. Finally, make sure this profile is active (**ACTIVE** to **ON**).

EXECUTION PERIOD	Select how often you want to receive reports: MONTHLY , WEEKLY or DAILY .
EXECUTION DAY OF MONTH /	Depending on the option you selected in EXECUTION PERIOD :
EXECUTION DAY OF WEEK	■ EXECUTION DAY OF MONTH shows when MONTHLY is selected.
	Select one date from 1 ~ 31 to reboot.
	■ EXECUTION DAY OF WEEK shows when WEEKLY is selected. Select
	one day from Monday ~ Sunday to reboot.

Step2: In CHANNEL, check the channel(s) you want.

Step3: In **DESTINATION**, choose which event type(s) you want to see (**MANUAL** / **MOTION** / **ALARM** / **SYSTEM** / **TIMER** / **HUMAN DETECTION**).

Step4: Click

to manually add an Email address to receive reports or

to select from the E-mail address list pre-defined in **NETWORK** → **E-MAIL**,

to modify the selected Email address, and

to remove the selected Email address from the recipients list.

Step5: Click **APPLY** to confirm.

6.6 STORAGE

To copy recorded data for video backup, click \pm to add an item for backup. You can add several items to copy different data you need.

					S	TORAGE				
HDD NEARL	Y FULL (GB)						5		~
HDD OVERH	HEAT ALERT	(°C)						70		~
OVERWRITE								ON		
KEEP DATA	LIMIT(DAYS	5)						OFF		~
TEMPERATU	RE TO ENA	BLE FAN (°C)					30		~
REMINDER \	WHEN FOR	MATTING HE)D					OFF		
	ID	TYPE	STATUS	SIZE	TEMP.	SERIAL NUMBER	FREE SIZ	FORMAT TIME	HEALTH ST	TATUS
① ፟	HDD2	NORMAL	READY	750GB	33°C	WD-WCAV53797317	269.856G	B 2017/07/18 23:03:52	GOOL)

1) HDD NEARLY FULL (GB)

If **HDD BUZZER** is enabled in **MAINTAIN**, select the duration time for buzzer notifications when the hard disk available capacity is 5/10/15/20 GB left.

2) HDD OVERHEAT ALERT (°C)

Select the temperature alert for your hard disk to be aware of the possible overheat of your hard disk.

3) **OVERWRITE**

Be defaults, the HDD overwritten function is set to ON, and 🔯 will be shown on the screen.

4) KEEP DATA LIMITS (DAYS)

Assign how many days to save the recording data from **1** to **31** days. After the assigned day(s), the recorded data will be removed. Select **OFF** to disable this function.

5) TEMPERATURE TO ENABLE FAN (°C)

Choose the temperature (25 / 30 / 35 / 40) to enable the built-in fan to work for heat dissipation.

6) REMINDER WHEN FORMATTING HDD

Enable this function to allow the recorder to prompt first when it needs to format your hard disk; otherwise the recorder will format the hard disk without asking.

7) HDD information

You can check the remaining capacity of the connected hard disk in this device and its current status.

If the health status goes to:

- GOOD This hard disk works normal.
- **BELOW AVERAGE** The hard disk might work with some errors. Please pay attention and do video backup if needed.
- REPLACEMENT NEEDED Please replace this hard disk immediately to ensure continuous video recording.

You can check the details of the selected hard disk.

9) MDD formation

Click to format the selected hard disk and erase all data. When a hard disk is inserted to the recorder for the first time, it's compulsory to format the hard disk for it to work properly.

10) Mount / La Unmount HDD

HDD hot-swapping is supported for this device. There's no need to power off the device first to install or remove a hard disk.

When a hard disk is installed, you'll need to click to manually mount the hard disk for it to work properly. When you need to remove a hard disk, click to unmount the hard disk and you'll be able to remove it.

Note: It's not allowed to remove a hard disk without clicking first.

6.7 ACCOUNT

Note: This function is available only for SUPERVISOR.

6.7.1 USER LIST

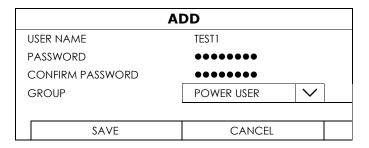
This function is used to create a new user account, or modify or delete an existing account for different access privilege.

	USER LIS	ST
EDIT	USER NAME	GROUP
	admin	SUPERVISOR
+		

■ How to create an account

Select $oxed{\pm}$, enter a user name and its password, and assign a user group in which includes the access rights you wish to grand to this new account. Then, select **SAVE** to create and return to the user list page.

Note: Four user levels are pre-defined in the system for you to quickly choose: **SUPERVISOR, POWER USER, USER & GUEST.** For details about available operations of each level, please refer to "6.7 ACCOUNT" at page 44.



6.7.2 GROUP

This menu is used to create a new group with customized user access rights for different functions if needed, and you can create a user account and assign it to your customized group.

Note: The default user groups are **SUPERVISOR**, **POWER USER**, **USER** and **GUEST**, and they're not allowed to be removed. For details about available local operations of each user group, please refer to "6.7 ACCOUNT" at page 44.

Note: The functions available depend on the recorder you have.

		BACKUP		
MANAGER	✓	+ 12		
GENERAL	LOCAL	NETWORK		
BACKUP			ALL	~
PTZ CONTRO	L		OFF	
POWER CONTR	ROL		ON	
REVIEW LOG	;		ON	
CONFIG SETU	IP		OFF	
CLEAR LOG	,		OFF	
ACCOUNT SET	UP		OFF	
CLEAR HDD			OFF	
PUSH VIDEO)		ON	
PUSH STATUS	5		ON	
ALARM OUT			ON	
			APPLY	

Icon	Meaning	Description
	Delete	Choose a customized user group and delete it. The default user groups (SUPERVISOR, POWER USER, USER and GUEST) can't be removed.
+	Add	Click to enter a group name, and select the tabs of GENERAL , LOCAL and NETWORK to choose the corresponding functions you want to enable or disable.
		Then, click APPLY to confirm.
(4)	Import	You need to create a user group first to use this function.
		Choose one of the default user groups you want to modify for your customized group from
		the drop-down list and click 🖆 choose a customized group to import the configurations.
		Then, you can quickly modify the configurations and click APPLY to confirm.

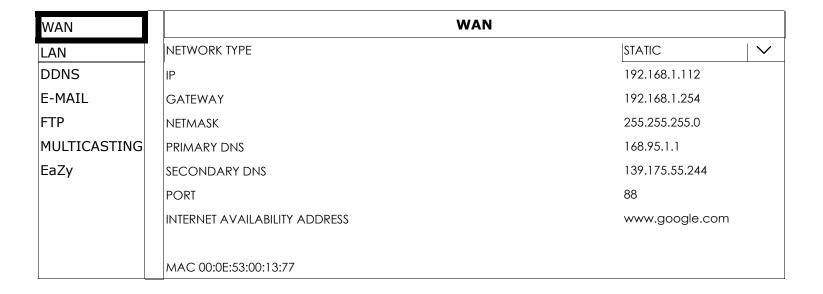
6.8 NETWORK

There are two RJ45 ports on the rear panel: **WAN** and **LAN**.

- WAN is used to connect this recorder to Internet for remote access from anywhere as long as Internet access is available.
- LAN is used to connect to IP cameras locally.
- **DDNS** is used when the Internet access is available.

Note: For more details about these three functions and network configurations, please get the network setup manual from

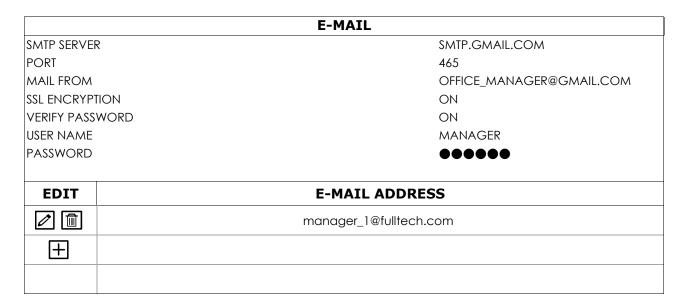
www.surveillance-download.com/user/network setup/network setup recorder.pdf.



6.8.1 E-MAIL

Configure your E-mail account here to send event notifications or reports.

Note: To know the SMTP server and port number you should use, please check with your E-mail service provider.



6.8.2 FTP

Configure up to 7 FTP sites here to upload event notifications or reports.

					FTP		
FTP 1	FTP 2	FTP 3	FTP 4	FTP 5	FTP 6	FTP 7	
NAME							Profile1
SERVER							211.75.33.2144
PORT							25
USER NA	AME						office
PASSWO	ORD						•••••
							APPLY

6.8.3 MULTICASTING

In this menu, users could configure the multicast address and port used for each channel for data streaming.

Three streams for different usage could be configured per channel. These are used for different video data requests from different clients.

				MUL	TICASTING				
TIMEOU	JT (SECS)							50	<u> </u>
LIMIT TH	IE TRANSFERING	OF THE RECORD	ING STREAM					2	~
	MULTICAST STREAM 1 ADDRESS	MULTICAST SREAM 1 PORT	STREAM 1 TIME TO LIVE(TTL)	MULTICAST STREAM 2 ADDRESS	MULTICAST SREAM 2 PORT	STREAM 2 TIME TO LIVE(TTL)	MULTICAST STREAM 3 ADDRESS	MULTICAST SREAM 3 PORT	STREAM 3 TIME TO LIVE(TTL)
CH1	239.0.0.1	9000	15	239.0.0.2	9002	15	239.0.0.3	9004	15
CH2	239.0.0.1	9006	15	239.0.0.2	9008	15	239.0.0.3	9010	15
СНЗ	239.0.0.1	9012	15	239.0.0.2	9014	15	239.0.0.3	9016	15
CH4	239.0.0.1	9018	15	239.0.0.2	9020	15	239.0.0.3	9022	15

1) TIMEOUT (SECS)

Set the timeout in second for transmission attempt in second for this channel, after which the attempt will be down. The options are: 10 / 20 / 30 / 50 / 120 / 240 / 300.

2) LIMIT THE TRANSFERING OF THE RECORDING STREAM

Set the number of how many record streaming could be transferred at the same time.

3) MULTICAST STREAM ADDRESS

Configure the addresses used for the three streams per channel.

The address range for multicasting is from 224.0.0.0 to 239.255.255.255.

Note: The address for each stream per channel should be unique and can't be the same as other stream in the same channel or other channel.

4) MULTICAST STREAM PORT

Set the event recording function on / off.

Configure the ports used for the three streams per channel.

The port range is from 1 to 65535.

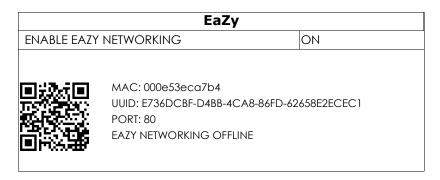
Note: The port for each stream per channel should be unique and can't be the same as other stream in the same channel or other channel.

5) TIME TO LIVE(TTL)

Set the connection time in second for each stream from 1 ~ 999.

6.8.4 EaZy

This function is used to connect this recorder to Internet by using EaZy Networking. For details, please refer to "APPENDIX 7 EAZY NETWORKIN" at page 76.



6.9 TIME

TIME SETUP				
DATE	2009 / NOV / 17			
TIME	15:35:53			
FORMAT	Y/M/D			
NTP SERVER	Pool.ntp.org			
SYNC PERIOD	DAILY			
GMT	(UTC+08:00)TAIPEI			
CLIENT TIME SYNC VIA RECORDER	OFF			
SYNC NTP SERVER TIME	SUBMIT			

1) <u>DATE</u>

Set the current date. The default display format is YEAR – MONTH – DATE (**Y-M-D**).

2) <u>TIME</u>

Set the current time in HOUR: MIN: SEC.

3) <u>FORMAT</u>

Set the time display format: Y/M/D, M/D/Y or D/M/Y.

4) NTP SERVER

Click to change the default NTP server to another server they're familiar with, or keep the default NTP server.

5) SYNC PERIOD

Select to synchronize the device time every day (**DAILY**), or turn this function off (**OFF**).

6) <u>GMT</u>

Select your time zone.

7) CLIENT TIME SYNC VIA RECORDER

Enable this function to synchronize the time of the connected IP cameras via the recorder when the recorder is connected to the Internet. This could ensure the time of the recorder and IP cameras are the same to prevent the confusion of time inconsistency.

Note: You may receive NTP-based DDoS attacks when this function is enabled. Please make sure your network is secured to prevent this kind of attack.

8) SYNC NTP SERVER

Chose **SUBMIT** to synchronize the recorder's time with the NTP server pre-defined in **NTP SERVER**.

Note: This function requires internet connection. Please make sure your recorder is connected to the internet.

6.10 DISPLAY

DISPLAY		
CHANNEL TITLE	ON	
EVENT STATUS	ON	
AUTO KEY LOCK(S)	30	\
HDD DISPLAY MODE	re,maining size	~
DISPLAY OUTPUT	AUTO	~
LANGUAGE	ENGLISH	~
HDMI2 DISPLAY (For selected models only)	SETUP	
SPOT MONITOR (For selected models only)	SETUP	
COMPOSITE OUTPUT (For selected models only)	SETUP	
VGA OTUPUT (For selected models only)	MAIN MONITOR	~
CALL SCREEN DURATION	10	~
QUAD SCREEN DURATION	10	~
NVR MODE (For selected models only)	16	~

1) CHANNEL TITLE

Select to display the channel title or not (**ON** / **OFF**).

2) EVENT STATUS

Select to display the event icons or not (ON / OFF).

Note: For details about each event icon, please refer to "4.3 Status & Operation" at page 16.

3) AUTO KEYLOCK (S)

Set the time-out in second after which the key lock function is activated (NEVER / 30 / 60 / 120).

4) HDD DISPLAY MODE

Select **REMAINING SIZE** to show the remaining HDD capacity for recording in GB, or **REMAINING TIME** to show the remaining recording time.

5) <u>DISPLAY OUTPUT</u>

Select the display resolution you want. The default value is **AUTO**. This is used for the main display output.

Note: To have the best image quality on your monitor, make sure (1) the selected output resolution is supported by your monitor, and (2) the output settings on both the LCD monitor and the recorder are consistent.

If the image is not positioned or scaled properly, please go to your monitor's menu for adjustment. For details, please refer to the user manual of your monitor.

6) LANGUAGE

Select the language of the OSD.

7) HDMI2 DISPLAY (For selected models only)

Specify how the second HDMI port is used for video output: **CALL MONITOR** / **EVENT MONITOR** / **LIVE**.

■ CALL MONITOR is used for sequence display. When this option is selected, go to CALL SCREEN DURATION to select the duration time in second (03 / 05 / 10 / 15) and CALL MONITOR PERMIT to choose the channel(s) you want for sequence display.

2 DISPLAY	
CALL MONITOR	
5	
4 selected	
	CALL MONITOR 5

■ EVENT MONITOR is used when any alarm event occurs. When this option is selected, go to LAYOUT to select how many channels you want to see, and PRE-ALARM (SEC) and POST-ALARM (SEC) to set how many seconds you'd like to see before (0 ~ 5) and after (3 ~ 10) the event starts.

	HDMI2 DIS	PLAY	
FUNCTION		EVENT MONITOR	\ <u>\</u>
LAYOUT		4	~
PRE-ALARM (SEC)		3	~
POST-ALARM (SEC)		5	~

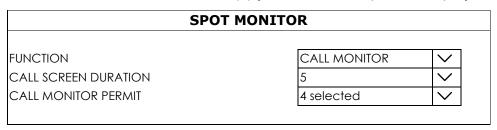
■ **LIVE** is used to select how many channels you'd like to show on the spot monitor.

HD	MI2 DISPLAY	
FUNCTION	LIVE	\
LAYOUT	4	~
CH1 🗸	CH3 V	
CH5 V	CH8 🗸	

8) SPOT MONITOR (For selected models only)

Specify how the VGA port is used for video output: **CALL MONITOR / EVENT MONITOR / LIVE**.

CALL MONITOR is used for sequence display. When this option is selected, go to CALL SCREEN DURATION to select the duration time in second (03 / 05 / 10 / 15) and CALL MONITOR PERMIT to choose the channel(s) you want for sequence display.



■ EVENT MONITOR is used when any alarm event occurs. When this option is selected, go to LAYOUT to select how many channels you want to see, and PRE-ALARM (SEC) and POST-ALARM (SEC) to set how many seconds you'd like to see before (0 ~ 5) and after (3 ~ 10) the event starts.

SPOT MONITOR						
FUNCTION	EVENT MONITOR					
LAYOUT	4					
PRE-ALARM (SEC)	3					
POST-ALARM (SEC)	5	~				
		1				

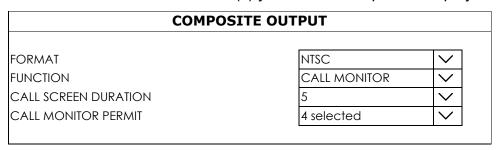
■ **LIVE** is used to select how many channels you'd like to show on the spot monitor.

SPO	T MONITOR	
FUNCTION	LIVE	<u> </u>
PROFILE	1	>
LAYOUT	4	>
CH1 V	CH3 V]
CH5 V	CH8 V]

9) COMPOSITE OUTPUT (For selected models only)

Specify how the composite port is used for video output: CALL MONITOR / EVENT MONITOR / LIVE.

■ CALL MONITOR is used for sequence display. When this option is selected, go to CALL SCREEN DURATION to select the duration time in second (03 / 05 / 10 / 15) and CALL MONITOR PERMIT to choose the channel(s) you want for sequence display.



EVENT MONITOR is used when any alarm event occurs. When this option is selected, go to LAYOUT to select how many channels you want to see, and PRE-ALARM (SEC) and **POST-ALARM (SEC)** to set how many seconds you'd like to see before $(0 \sim 5)$ and after $(3 \sim 10)$ the event starts.

COMPOSITE OUTPUT				
FORMAT	NTSC			
FUNCTION	EVENT MONITOR			
LAYOUT	4			
PRE-ALARM (SEC)	3			
POST-ALARM (SEC)	5			

LIVE is used to select how many channels you'd like to show on the spot monitor.

HDMI2 DISPLAY					
FORMAT	NTSC	 			
FUNCTION	LIVE	<u> </u>			
PROFILE	1	<u> </u>			
LAYOUT	4	<u> </u>			
CH1 V	CH3 V				
CH5 V	CH8 🗸				
	•				

10) VGA OUTPUT (For selected models only)

Choose MAIN MONITOR or SPOT MONITOR for how the VGA port is used for video output. When **SPOT MONITOR** is chosen, go to **SPOT MONITOR** to choose how you'd like the monitor to display the video.

11) CALL SCREEN DURATION

Select the duration time in second (03 / 05 / 10 / 15) when the channel display mode is 1-cut and (Sequence) is selected.



12) QUAD SCREEN DURATION

Select the duration time in second (03 / 05 / 10 / 15) when the channel display mode is 4-cut and (Sequence) is selected.

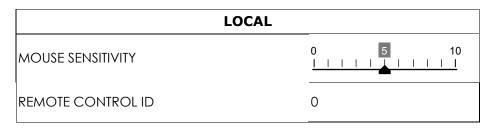


13) NVR MODE (For selected models only)

The recorder can be used as a 9CH or 16CH recorder. When it's used as a 9CH recorder, the live display supports 4K2K resolution; when it's used as a 16CH recorder, the live display supports only 1080P resolution even when a 5MP camera is connected.

6.11 PERIPHERAL

6.11.1 LOCAL



1) MOUSE SENSITIVITY

Select the mouse sensitivity. The higher the value, the more sensitive the mouse.

2) REMOTE CONTROL ID

This function is available when users need to control two or more recorders with one IR remote controller. The ID set here is used to identify the recorder the remote controller is going to control. Please also read the user manual of the IR remote controller for details.

6.11.2 JOYSTICK

In this menu, you can adjust the speed of pan / tilt movement of the speed dome camera or a motorized-pan camera.

Note: To control the movement of the speed dome camera, you can choose from the PTZ control panel and move on the screen), or simply connect the compatible joystick, AVX102, to the recorder.

JOYSTIC	СК
MAX SPEED OF X AXIS	100
MAX SPEED OF Y AXIS	100
CURVE ORDER OF X AXIS	1
CURVE ORDER OF Y AXIS	1

6.11.3 ALARM OUT

Note: This function is available for the models which support alarm-out connection to the recorder itself. Please check the specifications of your recorder to know if your recorder supports this function. To know how to configure the alarm-out device connected to an IP camera, please refer to "6.1.5 ALARM OUT" at page 30.

This function is used when the external alarm-out device is connected directly to the recorder. You can configure an alarm-out device to activate continuously or activate only for a period of time when it's triggered.

In RESTORE AUTOMATICALLY,

- Choose **DISABLE** to allow the device to activate continuously when it's triggered unless you switch it off manually from the alarm-out switch control panel (日午) on the live view.
- Choose **ENABLE** to allow the device to activate only for a period of time (1 / 3 / 5 / 10 / 20 / 30 / 60 / 120 / 180 seconds) when it's triggered.

ALARM OUT			
RESTORE AUTOMATICALLY		ALARM OUT DURA	TION (SECS)
DISABLE	~	1	V
ENABLE	~	5	~
			APPLY
-	RESTORE AUTOMATICALLY DISABLE	DISABLE	RESTORE AUTOMATICALLY ALARM OUT DURA DISABLE 1

Note: This function is available for the models which support alarm-in connection to the recorder itself. Please check the specifications of your recorder to know if your recorder supports this function.

This function is used when the external alarm-in device is connected directly to the recorder. You can configure how the alarm device should work by choosing **N.O.** or **N.C.**

LOCAL ALARM IN				
CHANNEL TITLE	ALARM IN			
CH1	N.C.	~		
CH2	N.O.	~		
CH3	OFF	~		
CH4	OFF	<u> </u>		
	<u>- </u>			

6.12 MAINTAIN

6.12.1 SYSTEM

SYSTEM	
BACKUP CONFIG	SUBMIT
RESTORE CONFIG	SUBMIT
RESET DEFAULT	SUBMIT
DEVICE TITLE	nvr_1
ENABLE AUTO PLUG AND PLAY	ON
BIND MAC ADDRESS	OFF
reset all guard connection	SUBMIT

1) BACKUP CONFIG / RESTORE CONFIG

To save the current configurations for later use, such as restoring after the recorder upgrade or applying to another recorder, insert a compatible USB flash drive into the USB port, and select SUBMIT in **BACKUP CONFIG** to copy the current configurations to a file "System.bin" and save to your USB flash drive.

To restore the configurations, insert the USB flash drive including "System.bin" to the USB port, and select **SUBMIT** in **RESTORE CONFIG**.

2) RESET DEFAULT

Click **SUBMIT** to reset all settings or partial settings to their factory default values, and select **YES** to confirm or **NO** to cancel. The system will reboot after reset.

3) DEVICE TITLE

Enter a title for this device.

4) ENABLE AUTO PLUG AND PLAY

Switch to **ON** to allow the camera to be detected and configured automatically when it's connected to this device.

Note: This function is available only when the brand of the cameras connected is the same as this device.

5) BIND MAC ADDRESS

This function is recommended to be used when your surveillance system is more than 256 cameras. It would be helpful for the system to get the address of each connected camera quickly if the system accidentally shuts down and needs to recover.

6) RESET ALL GUARD CONNECTION (For selected models only)

When there're more than 2 users who have the authority to enable Push Video on their mobile devices and configure its related settings, it might be confusing to know whose command is working. In this case, use this function could force the camera to discard all Push Video setup and reconfigure it.

6.12.2 UPGRADE

In this menu, you can choose to upgrade your recorder (**LOCAL**) or the connected our brand's IP cameras (**CAMERA**).

LOCAL

Save the upgrade files obtained from your installer or distributor in a compatible USB flash drive, and insert it into the USB port. Then, click **SUBMIT** to start upgrading.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to "APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIS at page 72.

		UPGRADE
LOCAL	CAMERA	
UPGRADE		SUBMIT
VERSION		1002-1001-1001-1000

CAMERA

You can choose to upgrade several connected IP cameras from the recorder as long as the cameras are our brand's IP cameras.

			UPGRADE				
LOCAL	CAMERA						
CHANNEL	VERSION		DIRECTORY	STATUS			
CH1	1085-1032-10)46-1020-A1A1	/mnt/usb/FullImg-1086-1033-1046-1020.bin			+	
CH2	1020S-1007S-	1011S-1009S				+	
CH3						+	
CH4						+	
			UP	GRADE	СОРҮ ТО)	~

- Step1: Save the upgrade files obtained from your installer or distributor in a compatible USB flash drive, and insert it into the USB port.
- Step2: Choose \pm to browse to where the firmware file is saved and choose the file to upgrade. Then, choose **SELECT** to confirm and return to the upgrade page.

		USB DEVIC	E 🗸	
SIZE	TYPE	1	MODIFIED	DATE
27.6MB	regular file		2017-07-13	3 12:19:32
9.6MB	regular file		2017-08-16	5 17:05:16
	27.6MB	27.6MB regular file	SIZE TYPE 27.6MB regular file	SIZE TYPE MODIFIED 27.6MB regular file 2017-07-13 9.6MB regular file 2017-08-16

Step3: Repeat Step2 as many as needed until all cameras which need firmware upgrade are selected. If one firmware file applies to several IP cameras, select **COPY TO** to apply the same file to the applicable cameras.

Step4: Choose UPGRADE to start upgrading all selected cameras, or choose 1 to upgrade the camera one by one.

6.12.3 ALERT

ALERT		
EXT. ALERT	OFF	
INT. BUZZER	ON	
KEY BUZZER	ON	
VLOSS BUZZER	ON	
MOTION BUZZER	ON	
ALARM BUZZER	ON	
HDD BUZZER	ON	
ALARM BUZZER DURATION (SEC)	10	~

1) EXT. ALERT

Select to enable or disable the sound when any external alarm is triggered (ON / OFF).

2) INT. BUZZER

Select to enable or disable the sound (ON / OFF) for all internal buzzers: **KEY BUZZER**, **VLOSS BUZZER**, **MOTION BUZZER**, **ALARM BUZZER**, and **HDD BUZZER**.

Note: When this item is set to **OFF**, item 3) to item 7) will be disabled even though they are set to **ON**.

3) KEY BUZZER

Select to enable or disable the sound when pressing the buttons on the front panel (ON / OFF).

4) VLOSS BUZZER

Select to enable or disable the sound when video loss happened (ON / OFF).

5) MOTION BUZZER

Select to enable or disable the sound when any motion alarm is triggered (ON / OFF).

6) ALARM BUZZER

Select to enable or disable the sound when any internal alarm is triggered (ON / OFF).

7) HDD BUZZER

Select to enable or disable the sound (**ON** / **OFF**) when the HDD remaining capacity reaches to the value set in **HDD NEARLY FULL (GB)**.

8) ALARM BUZZER DURATION (SEC)

Select the duration time for alarm buzzer in second (5 / 10 / 20 / 40).

6.12.4 EVENT LOG

You can check all the event information (event type, time and channel), or clear all log records.

	EVENT LO	G	
EVENT	TIME	CC	MMENT
KEY UNLOCK	2011/NOV/19 15:49	:07	
VIDEO LOSS	2011/NOV/19 15:32	:05 04	
POWER ON	2011/NOV/19 15:32	:02	
			_
	PREV	NEXT	CLEAN

6.12.5 ONLINE

ONLINE		
ANONYMOUS VIEWER LOGIN	OFF	
DROP ALL CONNECTION SUBMIT		
LOGIN FAILURE TIMES	3	~
LOCK TIME FOR LOGIN FAILURES	10 MINS	~

1) ANONYMOUS VIEWER LOGIN

Switch to **ON** to allow anonymous login, meaning there's no need to enter user name and password for remote access.

2) DROP ALL VIDEO CONNECTION

Click **SUBMIT** to force disconnection of all remote logins when needed.

3) LOGIN FAILURE TIMES

The recorder will lock the IP address with several login attempts. Choose the failure times of login attempts from the same IP address ($1 \sim 20$), and go to the next option, **LOCK TIME FOR LOGIN FAILURES**, to choose how much time you'd like to lock the IP address.

4) LOCK TIME FOR LOGIN FAILURES

Choose how much time you'd like to lock the IP address with several login attempts but failed (1 MIN / 2 MINS / 3 MINS / 5 MINS / 10 MINS / 30 MINS / 1 HOUR).

6.13 POWER CONTROL

Click to show the power off panel to halt, reboot or log out the system.



Icon	Meaning	Description
(b)	System Halt	Click to stop the system and remove the power adapter.
(1)	System Reboot	Click to reboot the system.
♂	System Logout	Click to log out the system and log in with another account.

6. REMOTE OPERATION

You can also control this recorder remotely via the web browser and iOS / Android devices.

6.2 Web Browser

You can view the images or operate your recorder with a web browser, for example, Microsoft Internet Explorer.

Note: The supported PC operation systems are Windows 10, Windows 8, Windows 7 and Windows Vista.

The user interface when you access via the web browser is nearly the same as the interface you see on the recorder, and the operations are also the same.

Note: The illustration below is just for your reference and may be different from what you actually see. Some functions and buttons are for selected models or certain user levels only.

Step 1: Key in the IP address used by this device in the URL address box, such as 60.121.46.236, and press Enter. You will be prompted to enter the user name and password to access the device.

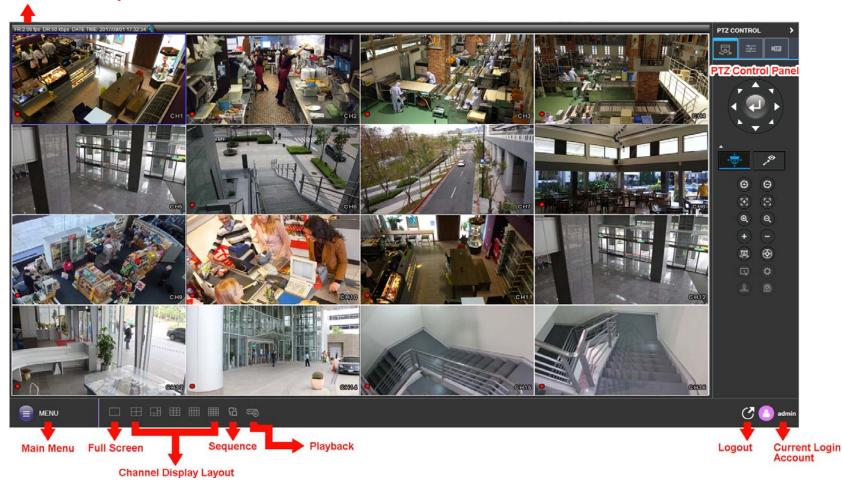
If the port number this device used is NOT 80, you need to key in the port number additionally. The format is *ipaddress:portnum*.

For example, for the IP address 60.121.46.236 and port No. 888, please key in "http://60.121.46.236:888" into the URL address box, and press "Enter".

Step 2: Enter the user name and password, and click "OK". You will see a similar screen as the following when the login information is correct.

Note: The default user name and password for remote access are both "admin".

Current Streaming Information: FR: Frame rate DR: Data rate DATE TIME: Current system time



6.3 Mobile Devices

Note: For more details about mobile surveillance via your mobile device, please visit http://info.eagleeyes.tw/iphone/index.html.

EagleEyes is a mobile phone program used with our surveillance system for remote surveillance. It's compatible with iOS and Android mobile devices, and it's free (Except EagleEyes Plus for iOS OS, and EagleEyes Plus+ for Android OS).

6.3.1 Prerequisites

Before installing EagleEyes to your mobile device for remote surveillance, make sure you have checked the following:

- ✓ Your mobile platform is iOS or Android.
- ✓ Mobile Internet services are subscribed and available to use for your mobile device.

Note: You might be charged for Internet access via wireless or 4G networks. For the Internet access rate details, please check with your local network operator or service provider.

✓ You have noted down the IP address, port number, user name and password used to access your network camera from Internet.

6.3.2 Where to download

Go to **App Store** / **Play Store** from your iOS / Android mobile devices and search *EagleEyes* to download.

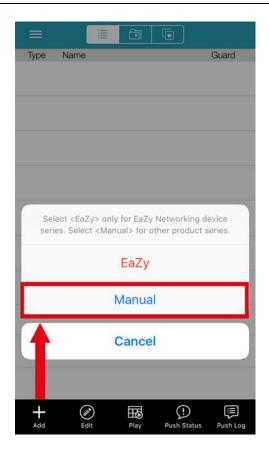
When the download is completed, *EagleEyes* will be installed automatically to the location where all applications are saved in your phone by default, or where you specify.

6.3.3 Setup

Step1: Open EagleEyes to go to the address book.

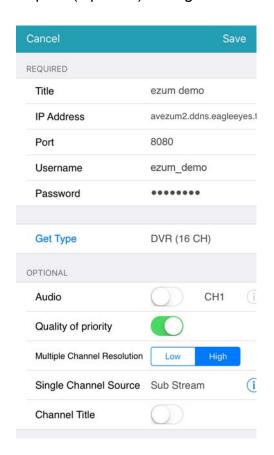
Step2: Then, click **Add** and select **Manual** to go to the setting page and manually add your device to EagleEyes.

Note: If you want to use EaZy Networking to connect your recorder to the internet, please refer to "APPENDIX 7 EAZY NETWORKIN" at page 76.

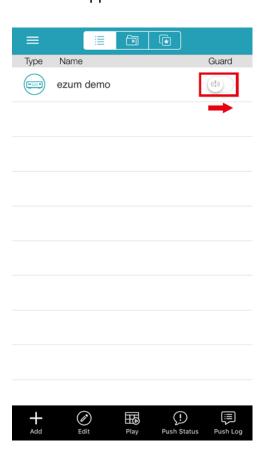


Step3: In the setting page, enter all the information needed to access this device in the **REQUIRED** column, and click **Get Type** to examine if the information you entered is correct. The device type will be detected properly.

Step4: (Optional) Configure the settings in the **OPTIONAL** column as needed.



Step5: Click **Save** to return to the address book. Enable **Guard** to receive Push Video if your recorder supports this function.



Step6: Click on the item you just added in the address book to access and check the live view.

APPENDIX 1 PRODUCT SPECIFICATIONS

> 16CH Models (without 8-bay & PoE)

		Model 1		
Hardware				
Video Input		One LAN port (up to 16 IP cameras)		
Video Output		HDMI x 2 / VGA x 1		
Video Cutent Decelution		HDMI-1: Up to 3840 x 2160 (4K2K)		
Video Output Resolution		HDMI-2 & VGA: Up to 1920 x 1080 (Full HD)		
Audio Output		YES (Line out / HDMI)		
Audio Input		YES (Mic in)		
Alarm I/O		4 in / 1 out		
HDD Storage**		Five 10TB hard disks		
eSATA Port		YES		
RS485 Port		YES		
USB Ports		USB 3.0 x 1 / USB 2.0 x 2		
IR Remote Control		YES		
Eth and the	LAN port	1000Mbps		
Ethernet	Internet (WAN) port	1000Mbps		
Software				
Video Compression Format		H.265		
Audio Compression Format		G.711		
Local / Remote Display Mod	de	16CH		
Local / Remote Playback M	ode	16CH		
Single Channel Playback		YES		
Record Stream		Dual		
Recording Mode		Manual / Event / Alarm / Schedule		
Recording Resolution		Up to 480 IPS @ 2592 x 1944 (5MP)		
Recording Throughput		Up to 300Mbps		
Pre-alarm Recording		YES		
Quick Search		Time / Event		
Event Notification		Push Video / Push Status / Video Mail / Message Mail		
Security		Multiple user access levels with password		
Remote Access		(1) Internet Explorer on Windows operating system (2) EagleEyes on iOS & Android mobile devices		
Max. Online User		20		
Multicast		YES		
Seamless Recording***		YES		
EaZy Networking		YES		
IVS***		YES		

	Model 1
Software	
Spot Monitor Setup	Call Monitor / Event Monitor / Live Monitor (HDMI-2 only)
Alarm Scenario Setup	YES
Alarm Pop-up & Preview	YES
Free DDNS Service	YES
General	
Power Source (±10%)	DC19V / 4.7A
Operating Temperature	10°C ~40°C (50°F~104°F)
Operating Humidity	10% ~ 85%
Dimensions (mm)***	432(W) × 90(H) × 326(D)
Minimum PC Browsing Requirements	 Intel core i3 or higher, or equivalent AMD 2GB RAM AGP graphics card, Direct Draw, 32MB RAM Windows 10, Windows 8, Windows 7, Windows Vista, DirectX 9.0 or later Internet Explorer 7.x or later (Windows Edge not supported)
Peripherals	Full HD Matrix (HDM02) Rack Mount (PP-AVC787-00K) PTZ Joystick (AVX102)

^{*} Specifications are subject to change without notice.

^{**} Hard disks are optional

^{***} Available only when the connected cameras are supported

^{****} Dimensional tolerance: ±5mm

> 36CH & 16CH Models (with 8-bay)

		Model 2	Model 3	Model 4	Model 5
Hardware					
Video Input		One LAN port (up to 36 IP cameras)		One LAN port (up to 16 IP cameras)	
Video Output		HDMI x 2 / VGA x	1 / Composite x 1	HDMI x 1 / VGA x 1 / Composite x 1	HDMI x 2 / VGA x 1 / Composite x 1
Video Output Resolution		HDMI-1: Up to 3840 x 2160 (4K2K) HDMI-2 & VGA: Up to 1920 x 1080 (Full HD)		HDMI: Up to 3840 x 2160 (4K2K)	HDMI-1: Up to 3840 x 2160 (4K2K) HDMI-2 & VGA: Up to 1920 x 1080 (Full HD)
Audio Output		YES (Line o	out / HDMI)	NO	YES (Line out / HDMI)
Audio Input		YES (I	Mic in)	NO	YES (Mic in)
Alarm I/O	Alarm I/O		Alarm out only		Alarm out only
HDD Storage**		Eight 10TB hard disks			
eSATA Port		NO			
RS485 Port		NO			
USB Ports		USB 3.0 x 1 / USB 2.0 x 2		USB 2.0 x 2	USB 3.0 x 1 / USB 2.0 x 2
IR Remote Control		YES			
Ethernet	LAN port	1000Mbps			
Ethernet	Internet (WAN) port	1000Mbps			
Software					
Video Compression Format	t	H.265			
Audio Compression Format	t	G.711			
Local / Remote Display Mo	de	36CH		16CH	
Local / Remote Playback Mode		36CH 16CH			СН
Single Channel Playback		YES			
Record Stream		Dual			
Recording Mode		Manual / Event / Alarm / Schedule			
Recording Resolution		Up to 540 IPS @ 3264 x 2448 (8MP) Up to 1080 IPS @ 2592 x 1944 (5MP)		Up to 480 IPS @ 2592 x 1944 (5MP)	
Recording Throughput		300Mbps			
Pre-alarm Recording		YES			
Quick Search		Time / Event			

	Model 2	Model 3	Model 4	Model 5
Software				
Event Notification	Push Video / Push Status / Video Mail / Message Mail	Push Status / Video Mail / Message Mail		Push Video / Push Status / Video Mail / Message Mail
Security		Multiple user access	evels with password	
Remote Access	(1) Browsers such as Windows Edge, Internet Explorer, Google Chrome, Safari & Mozilla Firefox on Windows & MAC operating systems (2) CMS Lite, 32CH CMS software for Windows operating system (3) EagleEyes on iOS & Android mobile devices			g systems ting system
Max. Online User		20)	
Multicast	YE	ES	NO	YES
Seamless Recording***	YE	ES	NO	YES
EaZy Networking		YE	S	
IVS***	YES	N	0	YES
Spot Monitor Setup	Call Monitor / Event Monitor / Live Monitor NO (HDMI-2, VGA & Composite)		Call Monitor / Event Monitor / Live Monitor (HDMI-2 only)	
Alarm Scenario Setup	YES			
Alarm Pop-up & Preview	YES			
Free DDNS Service	YES			
General				
Power Source (±10%)	1	DC19V	/ 3.42A	
Power Consumption (±10%)	14.25W (No hard disks connected)			
Operating Temperature	10°C ~ 40°C (50°F~104°F)			
Operating Humidity	10% ~ 85%			
Dimensions (mm)***	358(L) x 267(W) x 152(H)			
Minimum PC Browsing Requirements	 Intel core i3 or higher, or equivalent AMD 2GB RAM AGP graphics card, Direct Draw, 32MB RAM Windows 10, Windows 8, Windows 7, Windows Vista, DirectX 9.0 or later Internet Explorer 7.x or later (Windows Edge not supported) 			
Peripherals	Full HD Matrix (HDM02) / PTZ Joystick (AVX102)			

^{**} Hard disks are optional

^{*} Specifications are subject to change without notice.

*** Available only when the connected cameras are supported

^{****} Dimensional tolerance: ±5mm

> 16CH & 9CH Models with PoE

			Model 6	Model 7	Model 8	Model 9
ardware						
Video Input				8 LAN port	ts with PoE	
Video Output	ŀ	HDMI		YES (4K2K)	
	\	/GA		YES (1080P / Spot	Monitor Supported)	
	(COMPOSITE		YES (Spot Mor	nitor Supported)	
\". \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			16CH Mo	de: 1080P		1011
Video Output Resolution			9CH Mo	de: 4K2K	4K	(2K
Audio Output					1	
Audio Input				1 (M	lic in)	
Alarm I/O				4 in /	1 out	
RS485				YI	ES	
			Either two 10TB SA	TA HDD installed in		
HDD Storage**			the recorder, or on	e 10TB SATA HDD	One 10TF	3 hard disk
TIBB Glorage			installed and a disk	array connected to	One for	That'd diok
			the recorder via th	order via the eSATA interface		
USB Port		YES				
eSATA Port		Expandable with a SATA to eSATA NO cable		10		
IR Remote Control		YES				
	LAN po	rt	10/100 Mbps with PoE x 8			
Ethernet			10/100 Mbps x 1			
	Internet	(WAN) port	1000Mbps			
Software						
Video Compression Forma	at		H.265			
Audio Compression Forma	at		G.711			
Local / Remote Display Mode		16	CH	90	СН	
Local / Remote Playback Mode			16CH 9CH		СН	
Single Channel Playback		YES				
Record Stream		Dual				
Recording Mode		Manual / Event / Alarm / Schedule				
Recording Resolution		480 IPS @ 3264 x 2448 (8MP) 270 IPS @ 3264 x		64 x 2448 (8MP)		
Recording Throughput		80N	lbps	160Mbps	120Mbps	
Pre-alarm Recording			YES			
Quick Search			Time / Event			

	Model 6	Model 7	Model 8	Model 9
Software				
	Push Video / Push	Push Status /	Push Video / Push	Push Status /
Event Notification	Status / Video Mail	Video Mail /	Status / Video Mail	Video Mail /
	/ Message Mail	Message Mail	/ Message Mail	Message Mail
Security		Multiple user access	levels with password	
Remote Access	(2) EagleEyes on iOS 8	er, Chrome & Safari on & Android mobile device s software for Windows	es
Max. Online User	2	0	1	0
Multicast		Y	ES	
Seamless Recording***		Y	ES	
EaZy Networking		Y	ES	
IVS***	YES	NO	YES	NO
Spot Monitor Setup	Call Monitor / Event Monitor / Live Monitor (VGA & Composite)			omposite)
Alarm Scenario Setup	YES			
Alarm Pop-up & Preview	YES			
General				
Free DDNS Service	YES			
Power Source (±10%)	DC48V / 2.5A			
PoE****	IEEE802.3af			
Operating Temperature	10℃ ~40℃ (50℉~104℉)			
Operating Humidity	10% ~ 85%			
Dimensions (mm)****	-	-	260(L) x 48(H	H) x 235.7(D)
Minimum PC Browsing Requirements	 Intel core i3 or higher, or equivalent AMD 2GB RAM AGP graphics card, Direct Draw, 32MB RAM Windows 10, Windows 8, Windows 7 & Windows Vista, DirectX 9.0 or later Windows Edge, Internet Explorer 7.x or later 			
	Full HD Matr PTZ Joystick	,	Full HD Matri	x (HDM02) /
Peripherals	SATA to eS		PTZ Joystick	, ,
	(PWSC07	F120200)		

^{**} Hard disks are optional

^{***} Available only when the connected cameras are supported

> 4CH Models with PoE

		Model 10	
Hardware			
Video Input		4 LAN ports with PoE	
Video Output	НДМІ	YES (4K2K)	
	VGA	YES (1080P / Spot Monitor Supported)	
	COMPOSITE	NO	
Video Output Resolutio	on I	4K2K	
Audio Output		NO	
Audio Input		NO	
Alarm I/O		NO	
RS485		NO	
		Either two 10TB SATA HDD installed in the recorder, or	
HDD Storage**		one 10TB SATA HDD installed and a disk array connected to the recorder via the eSATA	
		interface	
USB Port		YES	
eSATA Port		Expandable with a SATA to eSATA cable	
IR Remote Control	I	YES	
Ethernet	LAN port	10/100 Mbps with PoE x 4	
	Internet (WAN) port	1000Mbps	
Software			
Video Compression Fo	rmat	H.265	
Audio Compression Fo	rmat	G.711	
Local / Remote Display	Mode	4CH	
Local / Remote Playbac	ck Mode	4CH	
Single Channel Playbac	ck	YES	
Record Stream		Dual	
Recording Mode		Manual / Event / Alarm / Schedule	
Recording Resolution		120 IPS @ 8MP (3264 x 2448)	
Recording Throughput		70Mbps	
Pre-alarm Recording		YES	
Quick Search		Time / Event	
Event Notification		Push Status / Video Mail / Message Mail	
Security		Multiple user access levels with password	
Remote Access		(1) Windows Edge, Internet Explorer, Chrome, Safari & Mozilla Firefox on Windows & MAC operating systems (2) EagleEyes on iOS & Android mobile devices (3) CMS Lite, 32CH CMS software for Windows OS	
Max. Online User		20	
Multicast		YES	
Seamless Recording***		YES	
EaZy Networking		YES	

	Model 10
Software	
IVS***	NO
Spot Monitor Setup	Call Monitor / Event Monitor / Live Monitor (VGA)
Alarm Scenario Setup	YES
Alarm Pop-up & Preview	YES
Free DDNS Service	YES
General	
Power Source (±10%)	DC48V / 1.25A
PoE***	IEEE802.3af
Operating Temperature	10℃ ~40℃ (50°F~104°F)
Operating Humidity	10% ~ 85%
	260(L) x 48(H) x 235.7(D)
Minimum PC Browsing Requirements	 Intel core i3 or higher, or equivalent AMD 2GB RAM AGP graphics card, Direct Draw, 32MB RAM Windows 10, Windows 8, Windows 7 & Windows Vista, DirectX 9.0 or later Windows Edge, Internet Explorer 7.x or later
Peripherals	Full HD Matrix (HDM02) / PTZ Joystick (AVX102) / SATA to eSATA cable (PWSC07F120200)

^{**} Hard disks are optional

^{***} Available only when the connected cameras are supported

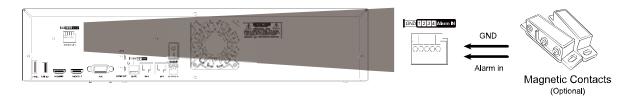
APPENDIX 2 PUSH VIDEO CONFIGURATION

Note: This function is for selected models only. Please check the product specifications or check with your installer to know more details.

A2.1 Alarm Sensor Connection

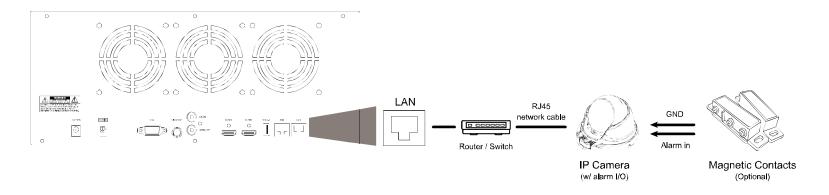
Connect the alarm sensor, such as magnetic contacts, to the alarm-in port on the rear panel. Alarm-in 1 corresponds to video channel 1, alarm-in 2 corresponds to video channel 2, and so on.

Note: The voltage restriction for alarm-in device connection is under DC24V 1A.



If the connected IP camera is our brand's IP camera with alarm I/O support, you can also connect the alarm sensor to the camera.

Note: Please check the user manual of the camera to know voltage restriction for alarm-in device connection.



Then, go to **MENU** → **CAMERA** → **DETECTION** and make sure:

- 1. MOTION is set to **ON**.
- 2. **ALARM** is configured (**N.C.** / **N.O.**) when an external alarm device is connected, or **INTERNAL ALARM** is set to **ON** when the connected camera has a PIR sensor built-in.

DETECTION							
CHANNEL TITLE	ALAR	М	INTERNAL ALARM	SENSITIVITY	MOTION	AREA	ADVANCED CONFIG
CH1	OFF	>	ON	2 0	ON	EDIT	ROI ROI
CH2	N.C.	~	OFF	2 0	ON	EDIT	ROI ROI
CH3	N.O.	~	OFF	2 0	OFF	EDIT	ROI ROI
CH4	OFF	>	OFF	2 0	OFF	EDIT	ROI ROI
		•		_			
							APPLY

A2.2 Configuration

Before configuring Push Video, make sure:

- 1. The system is set up as described in "2. CONNECTIONN" at page 33.
- 2. This recorder is connected to Internet.
- 3. You've installed the app, EagleEyes, on your iOS or Android mobile devices. For details, please refer to "6.3 Mobile Devicess" at page 593.

Step1: Go to **MENU** → **SCENARIO**, and enable the necessary rules:

If your alarm sensor is	Please enable
External alarm sensor	1. PUSH VIDEO TRIGGERED BY EXTERNAL ALARM
	2. MOTION DETECTION ON WHEN GUARD ON
PIR sensor built-in	1. PUSH VIDEO TRIGGERED BY BUILT-IN PIR SENSOR
	2. MOTION DETECTION ON WHEN GUARD ON
	3. INTERNAL ALARM (PIR) DETECTION ON WHEN GUARD ON

Step2: Open EagleEyes, and add this recorder to the EagleEyes address book.

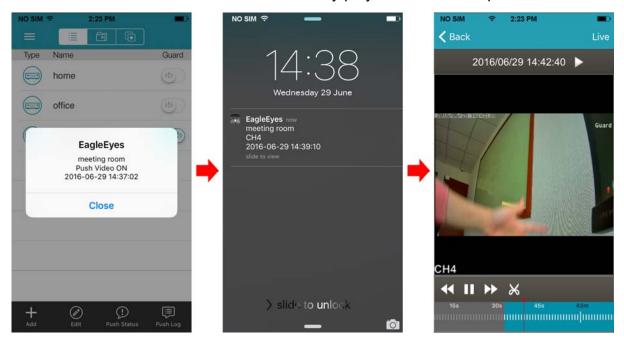
A2.3 Enable Push Video

A2.3.1 From iOS Mobile Device (iPhone / iPad)

Step1: In the iPhone / iPad main menu, select **Settings** → **Notifications**. Select **EagleEyes**, and make sure the notification is set to on.

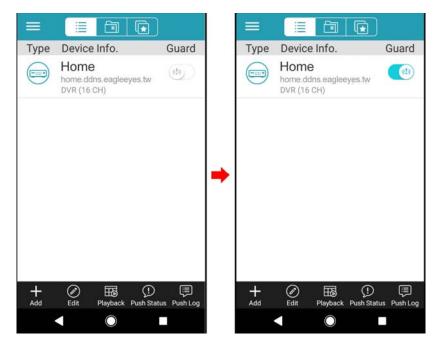


- Step2: Open **EagleEyes**, and switch **Guard** to **ON**. You'll receive the message indicating that Push Video is on.
- Step3: Return to the main page or standby page. You'll receive event notifications when there's an alarm event. Follow the on-screen instruction to immediately play the recorded clip.



A2.3.2 From Android Mobile Device

- Step1: Open **EagleEyes**, and switch **Guard** from **OFF** to **ON**. You'll receive the message indicating that Push Video is on.
- Step2: Return to the main page or standby page. You'll receive event notifications when there's an alarm event. Follow the on-screen instruction to immediately play the recorded clip.



APPENDIX 3 COMPATIBLE USB FLASH DRIVE LIST

Please upgrade the firmware of the recorder to the latest version to ensure the accuracy of the following table. If the USB flash drive is not supported by the recorder, you will see on the screen.

Note: Please use your PC to format the USB flash drive as "FAT32".

Note: You can backup up to 2GB video data for one-time USB backup. To backup more data, please set the time & channel(s) you want, and start USB backup again.

MANUFACTURER	MODEL	CAPACITY
Transcend	JFV35	4GB
	JFV30	8GB
Kingston	DataTraveler	1GB
PQI	U172P	4GB
Apacer	AH320	2GB
	AH320A	8GB
	AH220	1GB
	AH320	4GB
A-data	RB-18	1GB
Sandisk	Cruzer Micro	2GB
	Cruzer Micro	4GB
	Cruzer4-pk	2GB
Netac	U208	1GB
MSI	F200	4GB
SONY	Micro Vault Tiny 2GB	2GB
	Micro Vault Tiny 4GB	4GB
	Micro Vault Tiny	1GB

APPENDIX 4 COMPATIBLE HARD DISK LIST

Please upgrade the firmware of the device to the latest version to ensure the accuracy of the following table.

Note: It's necessary to install a hard disk first before firmware upgrade to ensure the upgrade process works properly.

Note: To use a green hard disk, use **ONLY** the hard disk designed especially for surveillance to ensure the device works properly.

Seagate*			
MODEL	CAPACITY	MODEL	CAPACITY
Pipeline HD ST3500312CSS	500GB	ST3000VX004	3ТВ
Pipeline HD ST500VT000	500GB	ST3000VX005	3ТВ
Pipeline HD ST1000VM002	1TB	ST3000VX006	3ТВ
Pipeline HD ST1000VM002	1TB	ST3000VX000	3ТВ
ST31000525SV	1TB	ST4000VM000	4TB
ST31000340AS	1TB	ST4000VX000	4TB
ST1000VX000	1TB	ST4000VX002	4TB
ST1000VX002	1TB	ST4000VX007	4TB
ST1000VX001	1TB	ST6000VX0001	6TB**
ST1000VX005	1TB	ST6000VX0011	6TB**
ST2000VX000	2TB	ST6000NM0024	6TB**
ST2000DM001	2TB	ST8000VX002	8TB**
ST2000VX004	2TB	ST8000VX0022	8TB**
ST3000VM002	3TB	ST100000VX0004	10TB**
	V	VD	
MODEL	CAPACITY	MODEL	CAPACITY
WD10PURX	1TB	WD30EFRX	3ТВ
WD20PURX	2TB	WD40PURX	4TB
WD20EURS	2TB	WD40EURX	4TB
WD20EURX	2TB	WD60EURX	6TB**
WD20EFRX	2TB	WD60PURX	6TB**
WD2002FAEX	2TB	WD6001FFWX	6TB**
WD30PURX	3TB	WD6001FSYZ	6TB**
WD30EURX	3TB		
TOSHIBA			
MODEL	CAPACITY	MODEL	CAPACITY
DT01ACA050	500GB	MD03ACA200V	2TB
DT01ABA050V	500GB	DT01ABA300V	3TB
DT01ACA100	1TB	DT01ACA300	3TB
DT01ABA100V	1TB	MD03ACA300V	3TB
DT01ACA200	2TB	MD03ACA400V	4TB
DT01ABA200V	2TB	MD04ABA500V	5TB

^{*} To know more details about SRS and its related support and service, please contact your local Seagate representative directly.

** Please be advised to pay attention to the heat dissipation of the hard disk which is over 4TB because it might generate much heat during operation. It's recommended that ambient temperature is not over 35°C.

APPENDIX 5 BATTERY REPLACEMENT

The time reset after power failure, for example, caused by a power outage, will cause the disorder of the recorded data, and users may have problems in searching the event clip they want. To keep the device time from resetting, a non-chargeable lithium battery, *CR2032*, is installed in the device.

However, the device time might still get reset when the battery is low or even running out of power. If so, please replace the device battery, CR2032, **right away** as instructed below.

➤ How to replace CR2032

Note: The lithium battery, CR2032, is a non-chargeable battery, and should be purchased separately. Please replace only with the same or equivalent type battery in case of danger.

Step1: Stop all recording **immediately** to prevent the disorder of the recorded data. Then, back up the recorded data if necessary.

Step2: Power off the device, and disconnect the power.

Step3: Remove the device upper cover or rear panel to find the battery on the mainboard.

Step4: Push the release as indicated below to remove the battery.





Type1

Type 2

Step5: Get a new battery and install it to its slot on the main board.

- For Type 1, install it with the side of "CR2032" facing up as shown above.
- For Type 2, install it without the side of "CR2032" facing you as shown above.

Step6: Replace the cover and connect to power.

Step7: Set the date & time, and resume recording.

APPENDIX 6 DISK ARRAY COMPATIBLE LIST

Here's the compatible list for disk arrays.

Note: For the compatible hard disks used for those disk arrays listed below, please check their respective user manuals or official websites.

Brand	Model Number
Proware	EP-D501-AA
	EP-2123-UA-R
RAIDON	GT1650-SB3
	GR3630-SB3
STARDOM	DR5-WBS3

APPENDIX 7 EAZY NETWORKING

EaZy Networking is a free P2P cloud service to connect AVTECH devices to the Internet automatically by plug-and-play, enabling you to check the live view via your mobile device or laptop at anytime.

In most cases, the device is connected via P2P. Connection via the relay server is only applied to some complex environments such as the private IP-based network environment used by a large enterprise. There is no speed limitation of P2P connection. To obtain stable transmission, it's recommended to purchase our data plan of 1GB or 7GB. Each device will enclose a 2GB data plan for a free trial.

EaZy Networking could be configured via EagleEyes on an iOS / android device, or via Internet Explorer.

Note: The instructions below explain how to configure via the free mobile app, EagleEyes. To know how to configure via Internet Explorer, please check the complete user manual.

Before using this function, make sure:

- This recorder is connected to a switch or router, and the switch or router is ready for Internet connection.
- The network icon on the bottom right corner is ♣, not ♣.
- You have an iOS / Android mobile device with EagleEyes installed.
- A8.1 Via EagleEyes on iOS / Android Device

A8.1.1 Recorder Setup

Step1: Go to **MENU** → **NETWORK** → **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from **T** to **T**.

Note: DHCP allows your router to assign an IP address for your device automatically. There are also **STATIC** and **PPPOE** to choose for the network type. Please choose the one needed for your network environment and get the information needed from your installer or network service provider.

WAN	v	VAN
LAN	NETWORK TYPE	DHCP
DDNS	IP	192.168.1.112
E-MAIL	GATEWAY	192.168.1.254
FTP	NETMASK	255.255.255.0
EaZy	PRIMARY DNS	168.95.1.1
	SECONDARY DNS	139.175.55.244
	PORT	88
	INTERNET AVAILABILITY ADDRESS	www.google.com
	MAC 00:0E:53:00:13:77	

Step2: In the same menu, select **EaZy**. Enable EaZy Networking, and leave this page open. You'll need to scan the QR code later.



A8.1.2 EagleEyes Setup

Two options can be chosen for EaZy Networking: **EaZy** and **QR Code**. **EaZy** is used for both recorders and IP cameras while **QR Code** is used only for recorders.

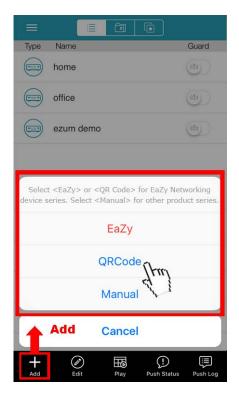
When a device is configured to the internet via **EaZy**, the person who configures the device has the administrator permission of this device and also has the power to assign who can access the device remotely, by the web browser of Internet Explorer or the mobile app of EagleEyes.

When a device is configured to the internet via **QR Code**, everyone has the right to access the device as long as he/she is able to scan the QR code of the device. However, he/she can only access the device via the mobile app of EagleEyes. Internet Explorer is not supported.

By QR Code

- Step1: Open EagleEyes on your mobile device, and select **Add** on the bottom. Then, click **QR Code**.
- Step2: Scan the QR code shown on your recorder, and enter the title of this device and its user name and password.
- Step3: Make sure you see the device type when you tap **Get Type**. If not, the device is not connected properly. Then, Tap **Apply** to complete the process and you're ready to see the live view.

Note: For the first time to connect your device to the internet, the default user name and password are both *admin*. If it's been configured before, make sure you've known its current user name and password since they may be changed for security purpose.



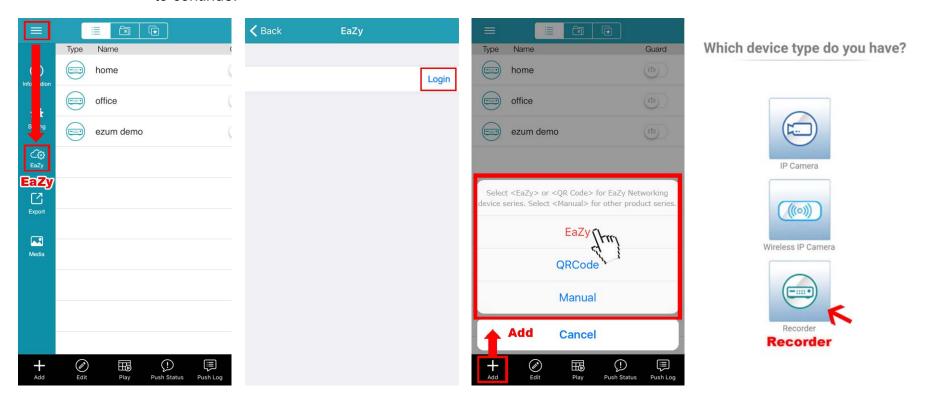


Step1: Go to **MENU** → **NETWORK** → **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from 🔁 to 🚅.

By QR Code

- Step1: Open EagleEyes on your mobile device, and select "•••" on the top left corner in the address book. Then, click **EaZy**.
- Step2: Click Login and register an account for "Cloud Service". If you've got an account, please just log in.

Step3: Go back to the address book and click + to add a new device. Select **EaZy**, and choose the recorder icon to continue.



Step4: Click in the section of **MAC address** to open the QR code scan page, and scan the QR code on the recorder screen mentioned in Step2. The MAC address will be filled automatically. Fill in the Captcha code manually, and click **Apply**.

Step5: Follow the on-screen instruction to finish the rest of the settings, and see if this device is added successfully to the address book as a cloud device.

At the same time, you'll be prompted to confirm if you want to remove the default user name and password.

- When the default user name and password are removed, you can **ONLY** use the user name and password of the cloud service to access this recorder locally and remotely. If you forget the user name and password of the cloud service, you could only reset the recorder and do all configurations again.
- When the default user name and password are kept, other people might be able to access this recorder if they know the default user name and password of this recorder.

Confirm if you want to keep the default account to continue, and return to the address book. You'll see the newly-added device in the address with a cloud icon on it.

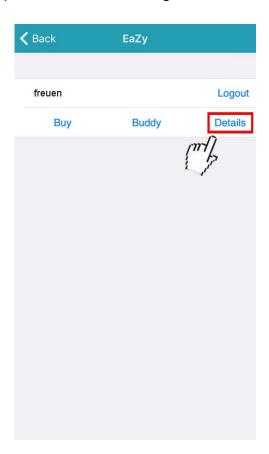


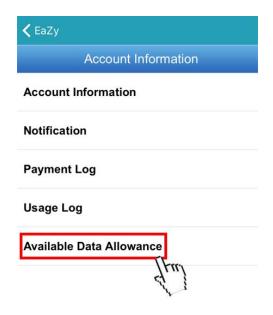
Step6: Click the newly-added device and see if you could access successfully.

A8.1.3 Checking Remaining Data Allowance

Step1: Log into the cloud service.

Step2: Select "Details" to go to account information, and select "Available Data Allowance".



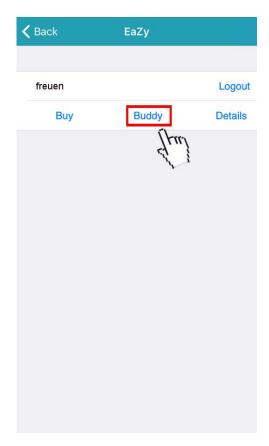


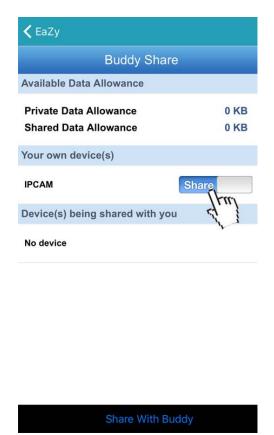
A8.1.4 Sharing Cloud Device Access with Other Account(s)

Note: One cloud device could be shared up to 30 cloud accounts, but the access to the device might be failed because it is still restricted to the maximum online user setup of the device.

Step1: Log into the cloud service.

Step2: Select "Buddy" to go to the buddy sharing page. Then, choose the device you want to share with, and switch from "OFF" to "Share".

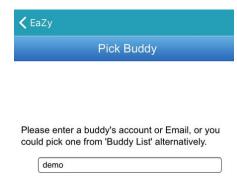




Step3: Choose the device you want to share with.

Step4: Enter the cloud account or the E-mail registered by the account, and select "Add".







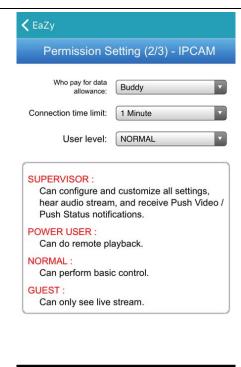


- Step4: Check again the account with which you want to share your cloud device, and select "Next" to confirm and continue.
- Step5: Specify the access permission of the specified account, which account's data allowance should be consumed after access successfully, and how long the account is allowed to stay after access successfully.
 - Who should pay data allowance:

Who should pay data allowance	The order to consume data allowance
I	The free data allowance provided by the device -> The additional data allowance shared to other account(s) by the owner -> The additional data allowance of the device's owner -> The data allowance shared to other account(s) by the buddy
Buddy	The additional data allowance of the buddy -> The data allowance shared with other account(s) by the buddy

Note: When there's no data allowance to use, the network transmission will be down to 1 FPS. To restore the fluency of live view, users need to subscribe a data plan from EagleEyes, or configure the network settings by themselves.







Step6: Check again the configurations you made for the account to which you want to share your cloud device, and select "Share!" to confirm.





- Step7: (Optional) Configure the data allowance shared to other accounts to use.
- Step8: Return to the address book of EagleEyes. You'll see the device being shared is marked with an icon of two people.
- A8.2 Via Internet Explorer on PC / Laptop

Note: EaZy Networking setup via a web browser is only available on Internet Explorer.

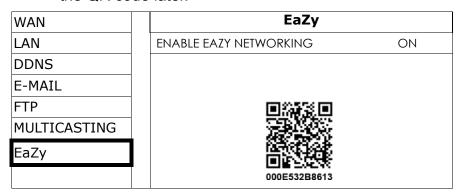
A8.2.1 Setup

Step1: Go to **MENU** → **NETWORK** → **WAN**. Set **NETWORK TYPE** to **DHCP**, and make sure the network icon on the bottom right corner is changed from 🔁 to 👺.

Note: DHCP allows your router to assign an IP address for your device automatically. There are also **STATIC** and **PPPOE** to choose for the network type. Please choose the one needed for your network environment and get the information needed from your installer or network service provider.

WAN	WAN	
LAN	NETWORK TYPE	DHCP
DDNS	IP	192.168.1.112
E-MAIL	GATEWAY	192.168.1.254
FTP	NETMASK	255.255.255.0
MULTICASTING	PRIMARY DNS	168.95.1.1
EaZy	SECONDARY DNS	139.175.55.244
	PORT	88
	INTERNET AVAILABILITY ADDRESS	www.google.com
	MAC 00:0E:53:00:13:77	

Step2: In the same menu, select **EaZy**. Enable EaZy Networking, and leave this page open. You'll need to scan the QR code later.



Step3: Open Internet Explorer on a PC / laptop, and enter https://ez.eagleeyes.tw.

In the login page, register an account for "Cloud Service". If you've got an account, please just log in.

Note: You PC must be connected to Internet.



Step4: Click + on the left pane, and you'll be prompted to install plugins: *EaZy Control* and *EaZy Wizard*. Please follow the instructions to install these two plugins to ensure the service works properly.

Note: If you're not prompted to install the plugin, please lower the security level of Internet Explorer, and try to log into the cloud service again.



Step5: Enable EaZy Wizard, and click "Start" to go to the login page. Log into the cloud service.





Step6: Select the recorder picture, or choose "DVR / NVR" on the bottom right corner. Then, enter the MAC address you wrote down in Step2, and the security code.

Click "Apply" to continue.





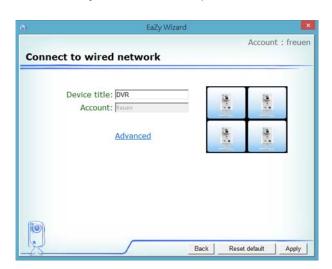
Step7: When your device is found, you'll be directed to the next page to change the device title if you want.

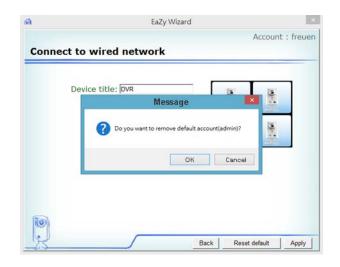
Note: The device name changed here will be fixed and can't be changed later.

Click "Apply" to continue. You'll be prompted to confirm if you want to remove the default user name and password.

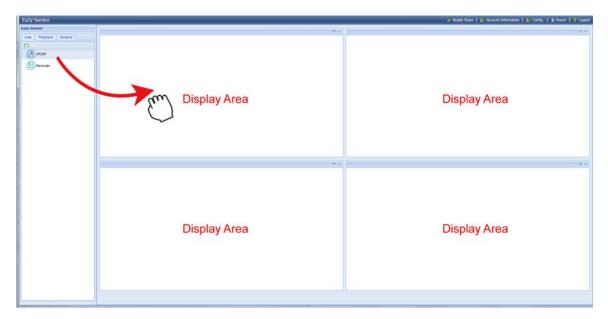
- When the default user name and password are removed, you can **ONLY** use the user name and password of the cloud service to access this recorder locally and remotely. If you forget the user name and password of the cloud service, you could only reset the recorder and do all configurations again.
- When the default user name and password are kept, other people might be able to access this recorder if they know the default user name and password of this recorder.

Confirm if you want to keep the default account, and click "Apply" to continue and return to the main page.





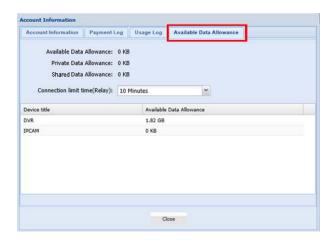
Step8: You'll see the newly-added device with a cloud icon on the left pane. Drag and hold the device to the display area on the right pane to show in the same window, or simply double-click the device to open the device view in another window.



A8.2.2 Checking Remaining Data Allowance

Step1: Log into the cloud service.

Step2: Select "Account Information" on the top right corner to go to account information, and select "Available Data Allowance".

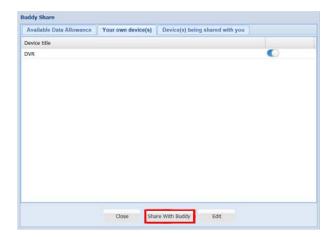


A8.2.3 Sharing Cloud Device Access to Other Account(s)

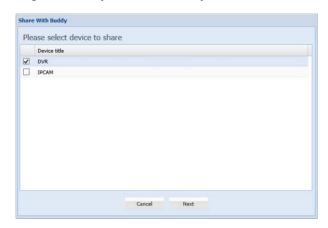
Note: One cloud device could be shared up to 30 cloud accounts, but the access to the device might be failed because it is still restricted to the maximum online user setup of the device.

Step1: Log into the cloud service.

Step2: Select "Buddy Share" to go to the buddy sharing page. Then, choose the tag "Your own device(s)", and select "Share With Buddy".



Step3: Choose the cloud device you want to share, and click "Next" to enter the cloud account or the E-mail registered by the account you want to share with. Then, select "Add".

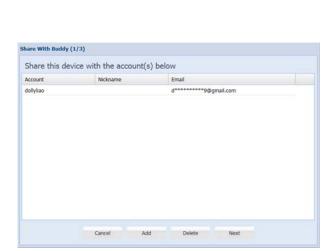




Step4: Check again the account to which you want to share your cloud device.

To add more accounts, select "Add"; to remove the existing account, select "Delete"; to continue buddy setup, select "Next".

Step5: Specify the access permission of the specified account, which account's data allowance should be consumed after access successfully, and how long the account is allowed to stay after access successfully.





> Who should pay data allowance:

Who should pay data allowance	The order to consume data allowance
I	The free data allowance provided by the device -> The additional data allowance shared to other account(s) by the owner -> The additional data allowance of the device's owner -> The data allowance shared to other account(s) by the buddy
Buddy	The additional data allowance of the buddy -> The data allowance shared with other account(s) by the buddy

Note: When there's no data allowance to use, the network transmission will be down to 1 FPS. To restore the fluency of live view, users need to subscribe a data plan from EagleEyes, or configure the network settings by themselves.

Step6: Check again the configurations you made for the account to which you want to share your cloud device, and select "Share!" to continue.

Step7: (Optional) Configure the data allowance shared to other accounts to use.

Step8: Return to the main page. You'll see the device being shared is marked with an icon of two people.



A8.3 Icons

Icon	Color	Indication
-::::•	Teal	This device is a DVR or NVR.
:	Blue	This device is an IP camera.
	Orange	This device is an IP speed dome camera.
?	Red	This device is disconnected and unidentified.
€ or	Depending on the device color	This device is configured to the Internet via EaZy Networking (AVTECH Cloud Service). The cloud icon will be grayed out if the EaZy server can't be connected.
1	Depending on the device color	You've shared the access right of the device with other cloud account via Buddy (AVTECH Cloud Service). The icon will be grayed out if you disable the device share.
Ω	Depending on the device color	The icon will be grayed out if the device share is disabled by the owner of the device.

For example, if you see as the device type, you'll know:

- This device is an IP camera.
- This device is connected to the Internet via EaZy Networking.
- You were shared with the access right of the device, but the device share is disabled now.